



Wiring Diagrams

**for Mobile, RV and
AUX GenSets**

To be used *ONLY* by

Distributor
Service Organization

or

Distributor/Dealer

WIRING DIAGRAMS FOR MOBILE ELECTRIC GENERATING SETS

All the wiring diagrams in this manual apply to Onan electric generator sets used in RV, AUX, or other special Mobile applications. When using the diagrams, remember that all components are shown in their de-energized position unless otherwise noted. Find the model in question in the left hand column (which matches the generator set nameplate), then look to the right for the applicable wiring diagram number and the page where it is located. For detailed service information, refer to the Master Service Manual for the respective unit, the RV Training Manual (932-0402) and the Controls Training Manual (932-0406).

MODEL NUMBER AND SPEC LETTER	WIRING DIAGRAM	SEE PAGE
2.5AJ-1E/6000K	605-0110	8
2.5AJ-1E/12006K,M	605-0110	8
2.7AJ-1R/12020K,M,N	611-1106	52
2.7AJ-1R/16010N	611-1106	52
2.7AJ-1R/16016N	611-1106	52
3.0AJ-1R/16017P,R	611-1140	61
3.0AJ-1R/16017S	611-1148	66
3.0AJ-1R/16018D,R,S	611-1148	66
2.5LK-1E/6000K,12006K,13036K,13036M	605-0110	8
2.5LK-1E/6820K,10819K	605-0083	5
2.5LK-1E/10898K	605-0107	6
205LK-1RV6000/1E,1F,1G,7060F,7193F,7740G	610-0266	12
205LK-1RV6000/1H	610-0313	14
205LK-1RV6000/7641G	610-0310	13
205LK-1RV6000/7641H	610-0320	17
2.5LK-1,2,3R/1C	610-0266	12
2.5LK-1R/6000H,6000J,8098G,8486J,8781H,8782H,9525J, 9903H,9903J,10298H,10497H,10545L, 10545J,10689J,10801J,10850J,11215J, 11426J,12000J,12006J,12820J,13646J, 14185J,14185L	610-0315	16
2.5LK-1R/10935J	605-0108	7
2.5LK-3CR/10801J	610-0338	18
2.5LK-3CR/10850J	610-0314	15
2.5LK-3CR/12000M,1L	610-0350	19
4.0BF-1R/9000A,14122A	611-1094	51
4.0BF-1R/9000B,9000C	611-1109	53
4.0BF-1R/9500A	611-1094	51
4.0BF-1R/15203B,15203C	611-1121	54
4.0BF-3CR/16000A,16002A	611-1123	55
4.0BF-3CR/16000B,16002B,16004B	611-1127	56
4.0BF-8R/16000B,17389B,20793B	611-1127	56
4.0BFA-1R/16000A,16004A	611-1135	59
4.0BFA-1R/16004B,16004C,16004D,16012C,17389C	611-1146	64
4.0BFA-1R/16015B,16015C,16020B,16020C	611-1147	65
4.0BFA-1R/16019A,16020A	611-1138	60
4.0BFA-3CR/15000C,20275A,20275C,22353C,22593C, 25206C,25505C,26651C,27014C, 27318C,27919C,26805C	611-1142	63
4.0BFA-5DR/22540C,22541C	606-0205	9

MODEL NUMBER AND SPEC LETTER

WIRING DIAGRAM

SEE PAGE

RV Gasoline (Continued)

4.0BGE-1R/26100A,26100B,26100C,26101A,26101B,26101C, 26102A,26109A,26109B,26109C,28202C	611-1174	76
4.0BGEL-1R/26110A,26110B,26111A,26111B,26112A	611-1174	76
5.0BGA-3CR/16000A	611-1135	59
5.0BGA-3CR/16019A,16020A	611-1138	60
5.0BGA-3CR/16004B,16004C	611-1146	64
5.0BGA-3CR/16015B,16015C,16020B,16020C	611-1147	65
4.0BGD-FB/1932A,7512A,30503A,30504A	611-1182	79
4.0BGE-1R/26100D,26100E,26101D,26101E,26109E	611-1174	76
4.0BGE-1R/26100F,26101F,26109F	611-1180	78
4.7BGE-1R/26100A,26101A	611-1174	76
4.0BGE-3CR/28202C,28202E,30981E	611-1176	77
4.0BGEL-1R/26110D,26111B,26111D	611-1174	76
5.0BGM-FA/26105A	611-1186	81
4.0CCK-**R/1J	611-0236	23
4.0CCK-1R/1J through 23J,1681J,6000J,7723J,8010J,8782J	611-0914	30
4.0CCK-1R/6000N,6000P,8643P,9290N,9525N,9525P,9625N 10108N,10108P,10298P,11411P,11497P	611-1035	36
4.0CCK-1R/8216J,8444J,9633P,9638N	611-1002	35
4.0CCK-1R/8793J,9470P,9620N,9840N,10476N,10476P, 11191P,11586P,11673P,11852P	611-1036	37
4.0CCK-1R/8815J	611-1039	39
4.0CCK-1R/9403J,10156J,10729J	611-1049	41
4.0CCK-1R/9381N	611-1054	44
4.0CCK-3R/6000J	611-0839	27
4.0CCK-3R/6000P,9381N,9381P	611-1067	46
4.0CCK-3CR/6000J	611-0975	34
4.0CCK-3CR/6000P,9525P	611-1035	36
4.0CCK-3CR/6000R,9525R,11693R,11721R,12000R,12019R, 12273R,12276R,13290R,14608R,16557R	611-1086	50
4.0CCK-3CR/17389U	611-1127	56
4.0CCK-3CR/15000U,16000U,16004U,20887U,21378U, 22650U,23659U,24044U	611-1142	63
5.0CCK-1R/1A	611-0176	22
5.0CCK-2R/1A	611-0176	22
5.0CCK-1RV6000/1J,5360J,6000J,7036J,7036P,1681J,12J	611-0914	30
5.0CCK-1RV6000/13J	611-0957	32
5.0CCK-1R/8216J,8444J,9469J,9633N	611-1002	35
5.0CCK-1R/6000N,6000P,8643P,8686P,8779J,9290N,9525N, 9525P,9625N,9641N,9701N,10108P, 10476N,10476P,10883P,11040P,11479P	611-1035	36
5.0CCK-1R/8815J	611-1039	39
5.0CCK-1R/9403J	611-1049	41
5.0CCK-1R/9470N,9470P,9620N,11191P,11852P,12015P	611-1036	37
5.0CCK-3RV/4262J,4262F,5662J	611-0676	24
5.0CCK-3RV/5121J	611-0786	25
5.0CCK-3RV/5222J	611-0801	26
5.0CCK-3RV/5605J	611-0164	21
5.0CCK-3RV/5262J	611-0871	28
5.0CCK-3CRV6000/1J,5360J	611-0839	27
5.0CCK-3CRV6000/12J	611-0975	34
5.0CCK-3RV6000/13J	611-0963	33
5.0CCK-3RV6206J,7823J	611-0902	29

MODEL NUMBER AND SPEC LETTER

RV Gasoline (Continued)

WIRING DIAGRAM

SEE PAGE

5.0CCK-3CR/6000R,10108R,11979R,12000R,12019R,12233R, 12276R,13040R,14618R,14780R,16437R, 16557R,16778R	611-1086	50
5.0CCK-3CR/9329J,9494N	611-1047	40
5.0CCK-3CR/9403J	611-1061	45
5.0CCK-3CR/9433J,9433N	611-1050	42
5.0CCK-3CR/8793J,9525N,9620N	611-1036	37
5.0CCK-3CR/1U,2U,3U,15000U,20508U,21378U,23034U	611-1142	63
5.0CCK-4R/18089U,16000U,17386U,17789U	611-1127	56
5.0CCK-4R/23969U	611-1142	63
5.0CCK-5DR/12018R,12233R	611-1086	50
5.0CCK-5DR/17233U	611-1127	56
6.0CCKB-3R/6000B,7821B,8327B	611-0955	31
6.0CCKB-3R/6000C,6000D,7821C,7821D,8327C,8779B,9525C, 9525D,9525E,10339C,11544D,12000D, 12000E	611-1037	38
7.5DKD-FJ/27798C,27799C	AC 612-6184	82
7.5DKD-FJ/27798C,27799C	DC 612-6353	83
8.0DKD-3CR/29686B	AC 612-6442	85
8.0DKD-3CR/29686B	DC 612-6441	84
8.0DKD-FJ/29686C,32448C	AC 612-6442	85
8.0DKD-FJ/29686C,32448C	DC 612-6441	84
15.0DL3-J/30437A,30438A	AC 612-6460	86
15.0DL3-J/30437A,30438A	DC 612-6442	85
2.2KV-FA/26100A	610-0375	20
2.8KV-FA/26100A	610-0375	20
6.0NH-1R/9000A,9500A	611-1094	51
6.0NH-1R/9000E,9000G,9000H	611-1109	53
6.5NH-3CE/10000D,21880L	606-0215	11
6.5NH-3CE/16375D,16777D	606-0209	10
6.5NH-3CR/6000A,10005A	611-1052	43
6.5NH-3CR/6000B,6000C,8686C,10005C,10182C,10621C, 11590C,11632C,11845C	611-1079	48
6.5NH-3CR/10250A	611-1076	47
6.5NH-3CR/10760C	611-1080	49
6.5NH-3CR/1D,9D,12D,13D,14D,6000D,12000D,12230D, 12894D,15336D	611-1086	50
6.5NH-3CR/15000D,15000L,18768L,19701L,23033L, 23034L,25051P	611-1142	63
6.5NH-3CR/16000J,16002J,16004J,17789J,18629J	611-1127	56
6.5NH-3CR/16000A,16000K,16004K	611-1135	36
6.5NH-3CR/16004M,16004N,16004P,16013P,26785P	611-1146	64
6.5NH-3CR/16019K,16020K,20909K	611-1138	60
6.5NH-3CR/16020M,16020N,16020P	611-1147	65
6.5NH-3CR/17198D,18105D,18106D	611-1134	58
6.3NHEL-1R/26110D,26111D	611-1174	76
6.5NHEL-1R/26110C,26111C	611-1174	76
6.5NHE-1R/26100C	611-1174	76
6.5NHE-1R/26100D,26100E,26101D	611-1180	78
6.5NHE-FA/26101E	611-1180	78
6.5NHE-3CR/30982C,30983C	611-1176	77

MODEL NUMBER AND SPEC LETTER**WIRING DIAGRAM****SEE PAGE****RV Gasoline (Continued)**

6.3NHL-3CR/16013P	611-1167	73
6.3NHL-3CR/16014P	611-1169	74
6.3NHEL-1R/26110A,26111A	611-1174	76
6.5NHE-1R/26100A,26101A	611-1174	76

AUX Sets

4.0BFA-1R/23000C,23001C,23003C,23004C	611-1160	69
6.5NH-3CR/23000P,23001P,23002P,23003P,23004P	611-1160	69
3.0RDJA-1R/23001U	611-1163	70
4.0DKC-3CR/23006B ¹ ,23007B ²	AC 612-6184	82
7.5DKD-3R/23008B,23009B	AC 612-6184	82
7.5DKD-3R/23008B,23009B	DC 612-6353	83
7.5DKD-3CR/23006B ¹ ,23007B ²	DC 612-6353	83
7.5DKD-5DR/23006B	AC 612-6184	82
7.5DKD-5DR/23006B	DC 612-6353	83
7.5DKD-FB/23006C,23007C,23008C,23009C	AC 612-6184	82
7.5DKD-FB/23006C,23007C,23008C,23009C	DC 612-6353	83

Diesel RV Sets

7.5DKD-3CR/27798A ¹ ,27798B ²	AC 612-6184	82
7.5DKD-3CR/27799A ¹ ,27799B ²	DC 612-6353	83
7.5DKD-FJ/27798C,27799C	AC 612-6184	82
7.5DKD-FJ/27798C,27799C	DC 612-6353	83
8.0DKD-3CR/29686B	AC 612-6442	85
8.0DKD-3CR/29686B	DC 612-6441	84
8.0DKD-FJ/29686C,32448C	AC 612-6442	85
8.0DKD-FJ/29686C,32448C	DC 612-6441	84
15.0DL3-J/30437A,30438A	AC 612-6442	85
15.0DL3-J/30437A,30438A	DC 612-6460	86
12.0RDJC-3R/21680AC	612-5787	71

Mobile and Commercial Units

4.0BFA-5DR/29309D (Time Manufacturing)	611-1142	63
4.5BGD-FB/1A,30502A	611-1182	79
4.5BGD-FD/1A,30502A	611-1184	80
6.5NH-5DR/26725P (Gen Cable)	611-1170	75
6.3NHD-FB/1932A,1932B,7512A,7512B,30503A,30503B, 30504A,30504B	611-1182	79
6.5NHD-FB/1A,1B,30502A,30502B	611-1182	79
6.5NHD-FD/1A,1B,30502A,30502B	611-1184	80

**REPLACEMENT CONTROLS FOR 300-0859 PRINTED CIRCUIT BOARD
KIT NUMBER**

300-1598 CCK,NH with Onan Choke (RV)	611-1141	62
300-1599 CCK,NH with Sisson Choke (RV)	611-1141	62
300-2026 CCK,NH with Onan Choke & Start-Disconnect for RV	611-1157	68
300-2027 CCK,NH with Sisson Choke & Start-Disconnect for RV	611-1157	68
300-1884 Standard CCK,NH with Onan Choke	611-1152	67
300-1885 Standard CCK,NH with Thermo-Magnetic Choke	611-1152	67

¹=STD FAN ROTATION²=REV FAN ROTATION

605A83

IGNITION & START
SWITCH NO. 308A140 *

(B) A OFF
ON
B START

POS. 1 A & B OFF
POS. 2 A ON, B OFF
POS. 3 A ON, B ON MOM.

SUPPRESSION
CAPACITOR
(M)

IGNITION
COIL

(N)

FUEL SOL.
NO. 307A1303

SPARK
PLUG

(D)

REAR
VIEW

(F)

* COMPONENTS
FURNISHED AS PART
OF 191C709

(G)

START
SOLENOID *

NO. 307B1031

(C)

* RESISTOR, 25A.
25W., N° 353A28

RECTIFIER, 25A.
N° 305A235

GENERATOR

SER. FLD.

COMM

SHUNT FLD.

AC

BATTERY

12V

+

-

12V

12V

12V

BREAKER &
CAPACITOR ASSY

RECEPTACLE BOX NO. 330A68
COVER - RECP BOX NO. 330-16

(E)

(2) CAP ASSY
NO. 312A180

RECP - DUPLEX
NO 323P107

(H)

(K)

MI

M2

DATE

7-10-68

5-15-68

5-15-68

3-8-68

2-23-68

2-13-68

12-5-67

12-5-67

12-5-67

ENG/CKR

DATE

10-24-67

CDR

WJB

SC

~

Ongn

DIVISION OF STUDEBAKER INDUSTRIES, INC.

Minneapolis, Minnesota

NAME

WIRING DIAGRAM

ENG. - GEN. CONTROL

DATE

DR.

ENGR.

CHK.

SC.

10-24-67

CDR

WJB

SC

~

NAME

WIRING DIAGRAM

ENG. - GEN. CONTROL

DATE

7-10-68

10-24-67

CDR

WJB

SC

~

NAME

WIRING DIAGRAM

ENG. - GEN. CONTROL

DATE

7-10-68

10-24-67

CDR

WJB

SC

~

NAME

WIRING DIAGRAM

ENG. - GEN. CONTROL

DATE

7-10-68

10-24-67

CDR

WJB

SC

~

NAME

WIRING DIAGRAM

ENG. - GEN. CONTROL

DATE

7-10-68

10-24-67

CDR

WJB

SC

~

NAME

WIRING DIAGRAM

ENG. - GEN. CONTROL

DATE

7-10-68

10-24-67

CDR

WJB

SC

~

605A83

205AJ-1EV/6820K

120 V., 1 PH.,
2 W., 50/60 CY.

NOTE: AC LEAD UNGROUNDED
IN GENERATOR

REVISIONS

LET.

605A83

205AJ-1EV/6820K

120 V., 1 PH.,
2 W., 50/60 CY.

NOTE: AC LEAD UNGROUNDED
IN GENERATOR

REVISIONS

LET.

605-107

9729

A

NOTE:
PLANT MUST BE STOPPED
BY THE SAME SWITCH THAT
WAS USED TO START IT.

REMOTE IGN' & START
SWITCH NO. 308A140 REF

IGNITION & START *

SWITCH NO. 308A140

POS. 1 A & B OFF

POS. 2 A ON, B OFF

POS. 3 A ON, B ON MOMENTARY

SPARK PLUG

IGNITION + COIL

BREAKER & CAPACITOR ASSY

RECEPTACLE BOX NO. 330A68

COVER - RECP BOX NO. 330-16

(2) CAP ASSY NO. 312A180

RECP-DUPLEX NO. 323P707

* COMPONENTS FURNISHED AS PART OF 191C709

REAR VIEW

START SOLENOID * NO. 307B1031

* RESISTOR, 25Ω 25W, NO. 353A28

RECTIFIER NO. 305A235

ELECTRIC CHOKE

GENERATOR

SER FLD

COMM

SHUNT FLD

AC

M1

M2

12V BATTERY

120 V, 1PH, 2 W., 50/60 CY

2.5AJ-1E/10898K

605-107

CONTROL-GEN SET (WIRING DIAGRAM)

DIVISION OF ONAN CORPORATION Minneapolis, Minnesota

OR C I P SC

ENGOR G. F. T.

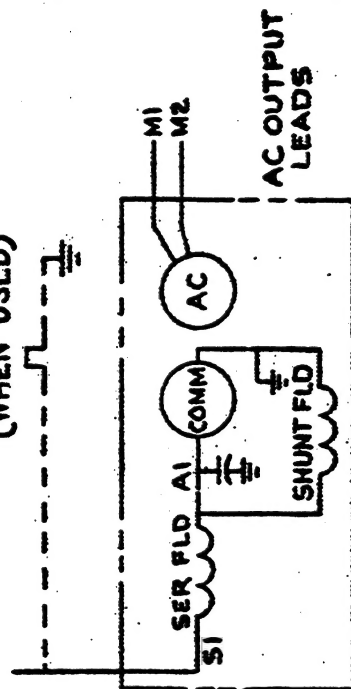
DATE 6-7-71

LET REVISION DATE

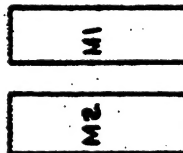
END CKR

605A108

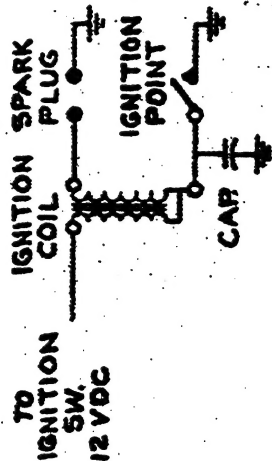
ELECTRIC CHOKE
(WHEN USED)



AC SLIP RINGS



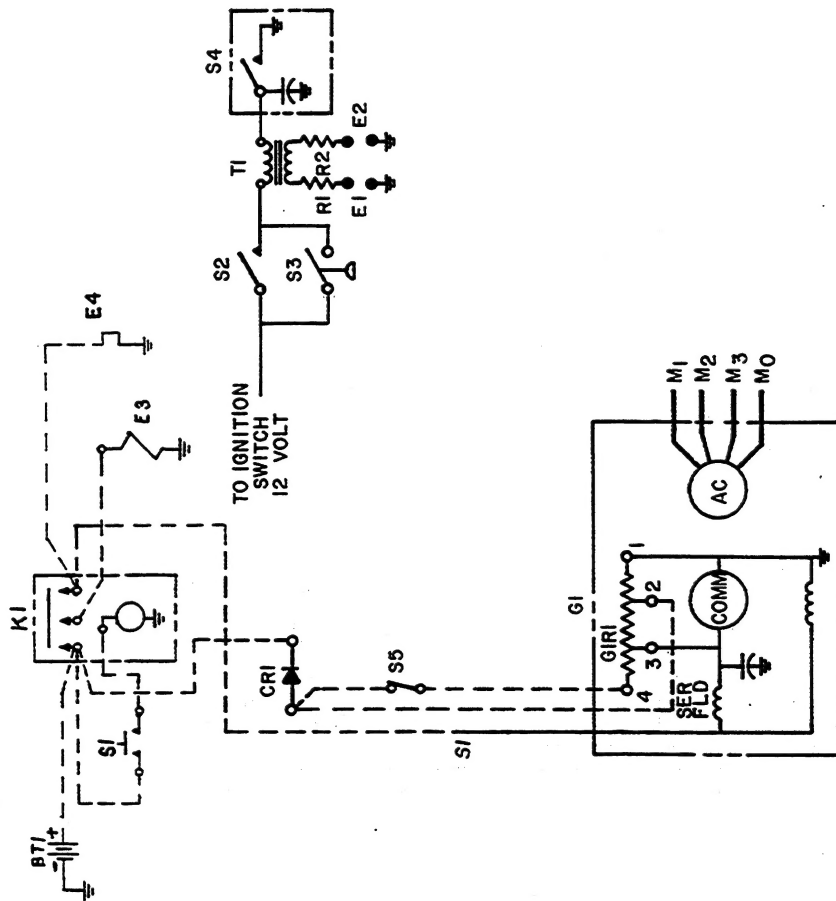
COMM END ← → BEARING END



LET	REVISIONS	ENG	CHK	DATE
DIVISION OF STUDEBAKER INDUSTRIES, INC.				
Minneapolis, Minnesota				
DATE	6-16-71	DR	CDR	SC
NAME		ENGINE GEN SET		
(WIRING DIAGRAM)				
MODEL	2.5LK-1R/10935J			
DWG. NO.	605A108			

M2 GROUNDED AC LEAD, M1
HAS 0.1 MFD CAPACITOR TO GROUND

606-0205B



PARTS LIST			DESCRIPTION	
REF	DES	PART NO.	QTY	
* CRI			1	RECTIFIER AND HEAT SINK
* BT1			1	BATTERY
E1, E2			2	SPARK PLUG
E3			1	CHOKE - 5/1550N
G1			1	GENERATOR
RI, 2			2	RESISTOR-GENERATOR
S1			1	LEAD ASSY
S2			1	SWITCH-START
S3			1	SWITCH-OIL PRESS BY PASS
S4			1	SWITCH-OIL PRESS
S5			1	BREAKER & CAP ASSY
T1			1	SWITCH-HIGH CHARGE RATE
E4			1	COIL-IGNITION
H1			1	CHOKE - ONAN
			1	RELAY - START SOLENOID

* SUPPLIED BY CUSTOMER

** WHEN USED

M0 GROUNDED AC LEAD

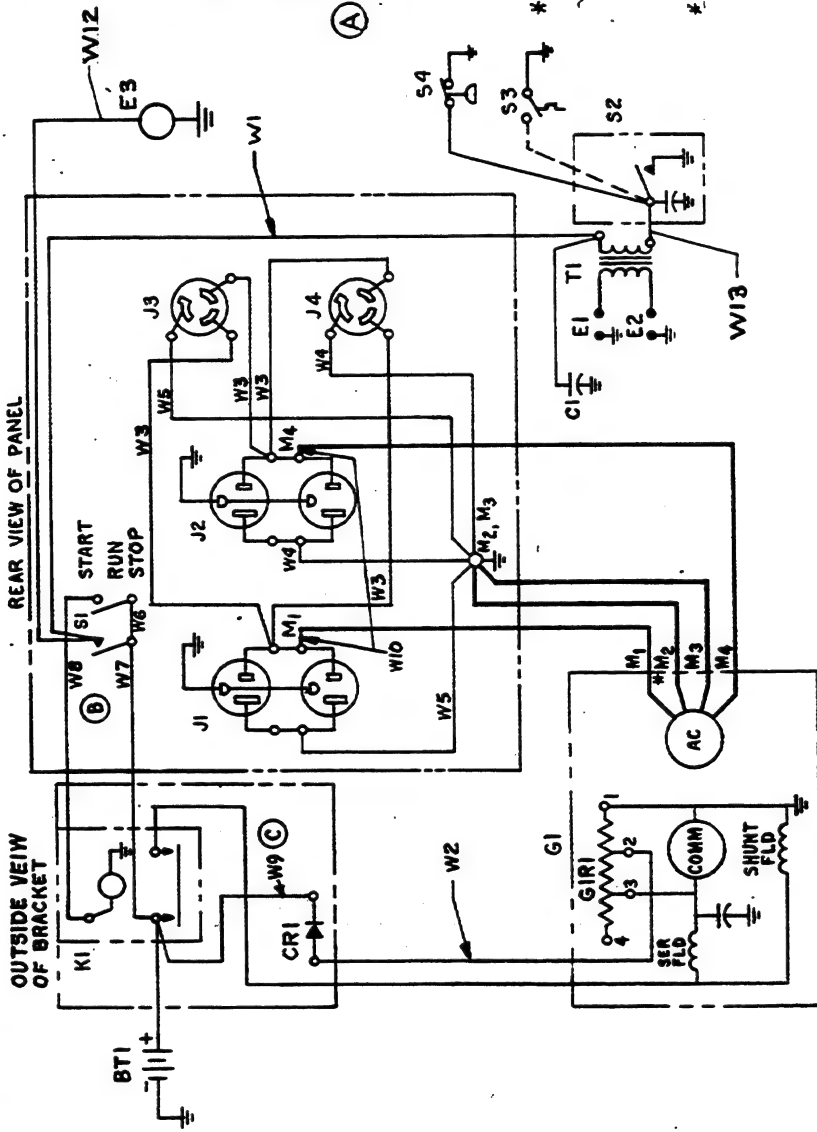
3718	B	ADDED E4	R/W	10-6-80
A	ADDED START SOLENOID	DATE	7-2-73	
ER		REVISION	DATE	

Ongin		DIVISION OF SUBSIDIARY CORPORATION	
MODEL NO.	4.0CCX-50E/13495R	DATE	6-11-73
NAME	CONTROL-GEN SET	DATE	7-2-73
		(WIRING DIAGRAM)	
120/240V., 3 PH., 4W., 60Hz Δ		606-0205	
		B	

606-0209

OUTSIDE VIEW
OF BRACKET

REAR VIEW OF PANEL



* WHEN USED

* GROUND AC LEAD, OTHERS HAVE
.1 MFD CAPACITOR TO GROUND IN GEN

PARTS LIST			
REF	DES	PART NO.	DESCRIPTION
A1		300-1318	CONTROL ASSY
CR1		305-0235 REF	RECTIFIER
		305-0254 REF	BRKT-RECTIFIER MFG.
J1, J2		323-0184 REF	RECEPTACLE, DUPLEX, 120 V
J3, J4		323-0855 REF	RECEPTACLE TWISLOCK, 240V
K1		307-1031 REF	SOLENOID
S1		308-0140 REF	SWITCH-START STOP RUN
W1		338-1185 REF	LEAD ASSY
W2		338-1889 REF	LEAD ASSY
W3		338-2127 REF	LEAD ASSY
W4		338-1570 REF	LEAD ASSY
W5		338-1888 REF	LEAD ASSY
W6		337-0088 REF	LEAD ASSY
W7		338-1878 REF	LEAD ASSY
W8		338-0388 REF	LEAD ASSY
W9		338-1195 REF	LEAD ASSY
W10		308-0003 REF	JUMPERS
W11		338-0842 REF	HARNES MOD.
W12		356-1802 REF	LEAD ASSY
W13		356-0402 REF	LEAD ASSY

ENG GEN PARTS LIST			
BT1			BATTERY
G1			CAPACITOR-0.1 MFD
E1, 2			SPARK PLUG
G1			GENERATOR
S2			RESISTOR-GENERATOR
S3			BREAKER & CAP ASSY
S4			HATKO
T1			LOPNO
E3			COIL-IGNITION
E3			ELECTRIC FUEL PUMP

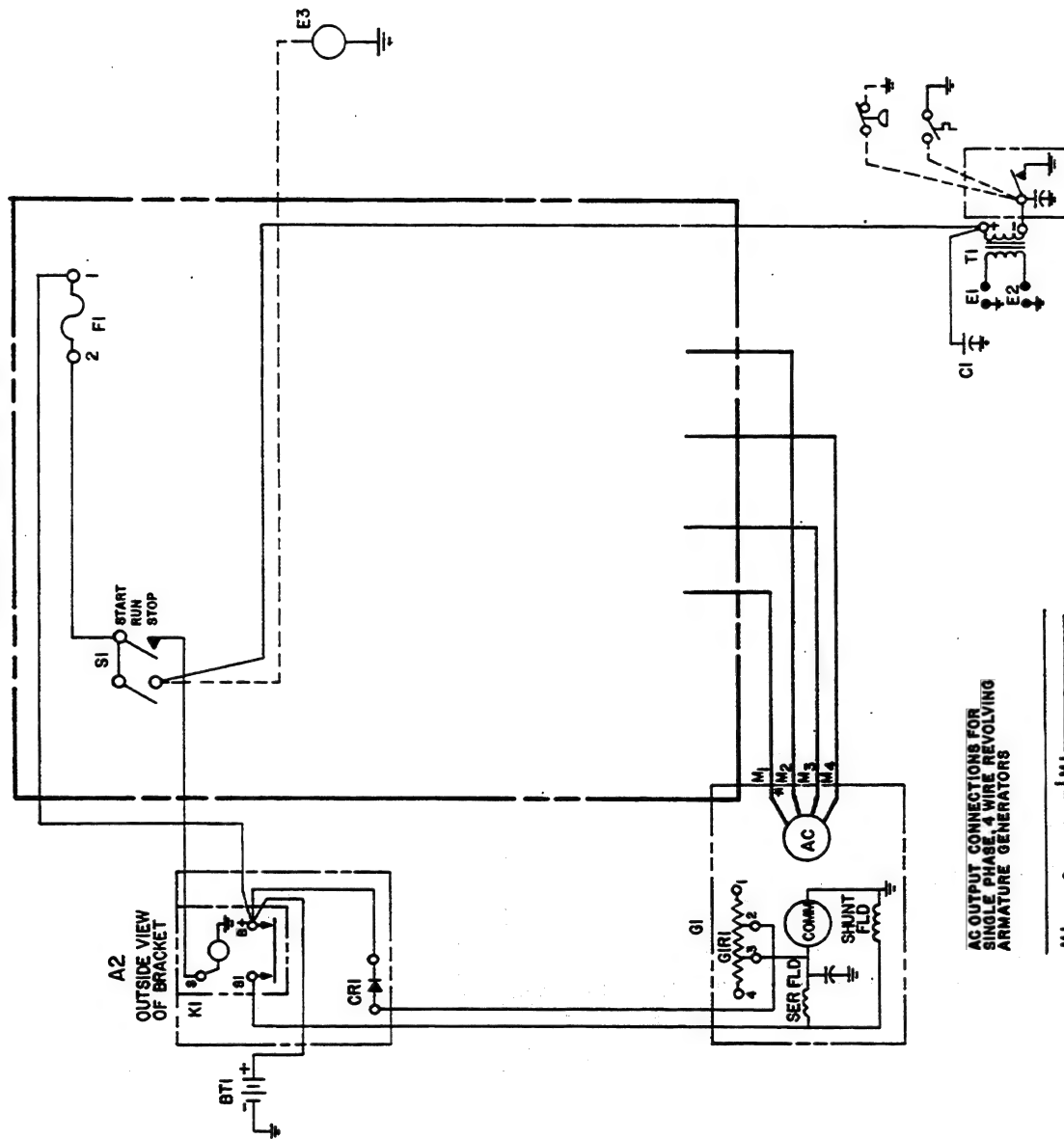
C	ADDED W9	CR 100	3-26-77
B	REVISED S1 WIRING	CR 100	3-24-77
A	ADDED ITEMS W12, W13	CR 100	10-2-75
REV	REVISION	DATE	

Osgen
DIVISION OF STURGES CORPORATION
ANN ARBOR, MICHIGAN

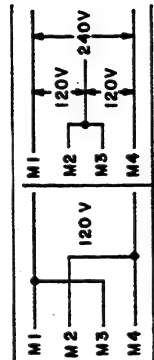
PROJ NO	9-3-75	BY	WMA
REV		DATE	
CONTROL - GEN SET (WIRING DIAGRAM)			
PROJ NO	606-0209	REV	B

606-0215

REAR VIEW OF PANEL



AC OUTPUT CONNECTIONS FOR
SINGLE PHASE 4 WIRE REVOLVING
ARMATURE GENERATORS



NOTE: M2 LEAD IS INTERNALLY
GROUNDED IN GENERATOR

REF DES	PART NO.	QTY	DESCRIPTION
AI	300-208 C	1	PANEL ASSY
AI	300-209 D	1	CONTROL ASSY
ALL PART NOS LISTED BELOW ARE REF ONLY			
CRI	357-0030 P	1	RECTIFIER - SILICON
KI	307-031 B	1	SOLENOID
SI	308-0140 A	1	SWITCH - TOGGLE (START RUN STOP)
WII	338-0642 B	1	HARNESSES - AC'OUT PUT
FI	321-0174 P	1	FUSE 5 AMP
ENG GEN PARTS LIST			
BTI	1	1	BATTERY
CI	1	1	CAPACITOR - 0.1 MFD
EI,2	2	2	SPARK PLUG
GI	1	1	GENERATOR
GRI	1	1	RESISTOR - GENERATOR
S3	1	1	BREAKER & CAP ASSY
S4	1	1	HATKO
S5	1	1	LOPKO
T1	1	1	COIL - IGNITION
E3	1	1	ELECTRIC FUEL PUMP

606-0215

NOTES:
1.

1219	1219	1219	1219	1219	1219	1219	1219	1219	1219
ER	ER	ER	ER	ER	ER	ER	ER	ER	ER
DIVISION OF CHAN CORPORATION Minneapolis, Minnesota									
10-7-79									
CONTROL - GEN SET (WIRING DIAGRAM)									
606-0215									

6.5NH-3CE/21880L

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

11-01-79

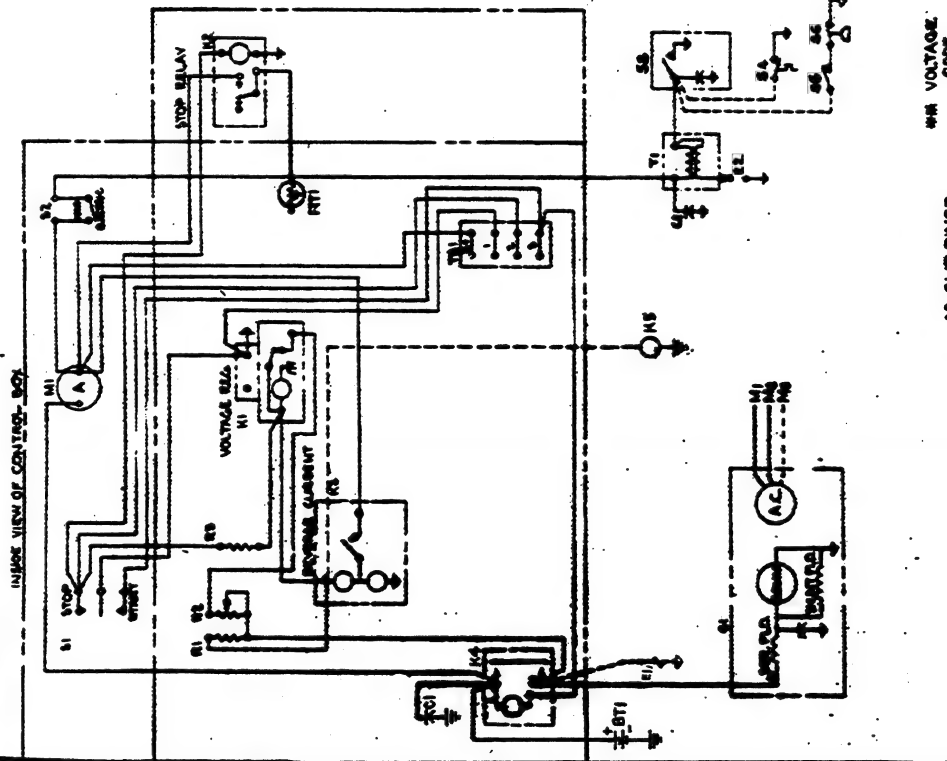
11-01-79

11-01-79

610C266

WIRING DIAGRAM

SCHEMATIC DIAGRAM



AC SLIP RINGS
M1 M2 M3

VOLTAGE CODE
--1-2
--3

COMM. END
BEARING END

NOTE:
* GROUNDED AC LEAD; OTHERS HAVE
1 MFD CAPACITOR TO GROUND IN GEN.

REF. DIS.	PART NO.	QTY.	DESCRIPTION
C1	312A155	1	CAPACITOR ASSY. 1.0 MFD
K1	305A1	1	RELAY - 2 STEP VOLTAGE REG.
K2	307A1115	1	RELAY & LEAD ASSY. - STOP
K3	307B253 (REF)	1	RELAY - STOP
K4	307B180	1	RELAY - REVERSE CURRENT
M1	307B1046	1	RELAY - START SOLENOID
M2	302A58	1	AMMETER - CHARGE 10-10
M3	304A583	1	RESISTOR & LEAD ASSY.
R1	304A244 (REF)	1	RESISTOR 1.0 25W
R2	304A175 (REF)	1	RESISTOR 1.0 50W
S1	308B292	1	SWITCH ASSY. - BMT START
S2	308P154 (REF)	1	SWITCH - STOP START
S3	304A251 (REF)	1	RESISTOR 30 0.5W
S4	308B291	1	SWITCH & RESISTOR ASSY.
S5	308P2 (REF)	1	SWITCH - HAND ELEC START
RT1	304A60 (REF)	1	RESISTOR 1.72 0.25W
TB1	332A537	1	TERMINAL BLOCK
W1	332A586	1	WARMER STRIP
W2	336A1432	1	LEAD ASSY.
W3	336A1283	1	LEAD ASSY.
W4	336A1430	1	LEAD ASSY.
W5	336A585	1	LEAD ASSY.
W6	336A1045	1	LEAD ASSY.
W7	336A1431	1	LEAD ASSY.
	301C1180	1	CONTROL BOX & PANEL ASSY.
	301B1188	1	MTG BRACKET
	301C1244	1	COVER
	301B1211	1	ENDPLATE
	90A1812	1	SILK SCREEN
	90A1144	1	SILK SCREEN

PARTS LIST (ENG-GEN)	
B11	312A99 (REF)
C2	BATTERY 12 VOLT
E1	CAPACITOR 9.1 MFD
E2	ELECTRIC CHOKE
G1	SPARK PLUGS
G2	GENERATOR
H5	FUEL SOLENOID
S3	BREAKER & CAP ASSY.
S4	SWITCH - HIGH AIR TEMP.
S5	SWITCH - LOW OIL PRESS.
S6	SWITCH - LOW OIL PRESS.
T1	IGNITION COIL - (OHAN)

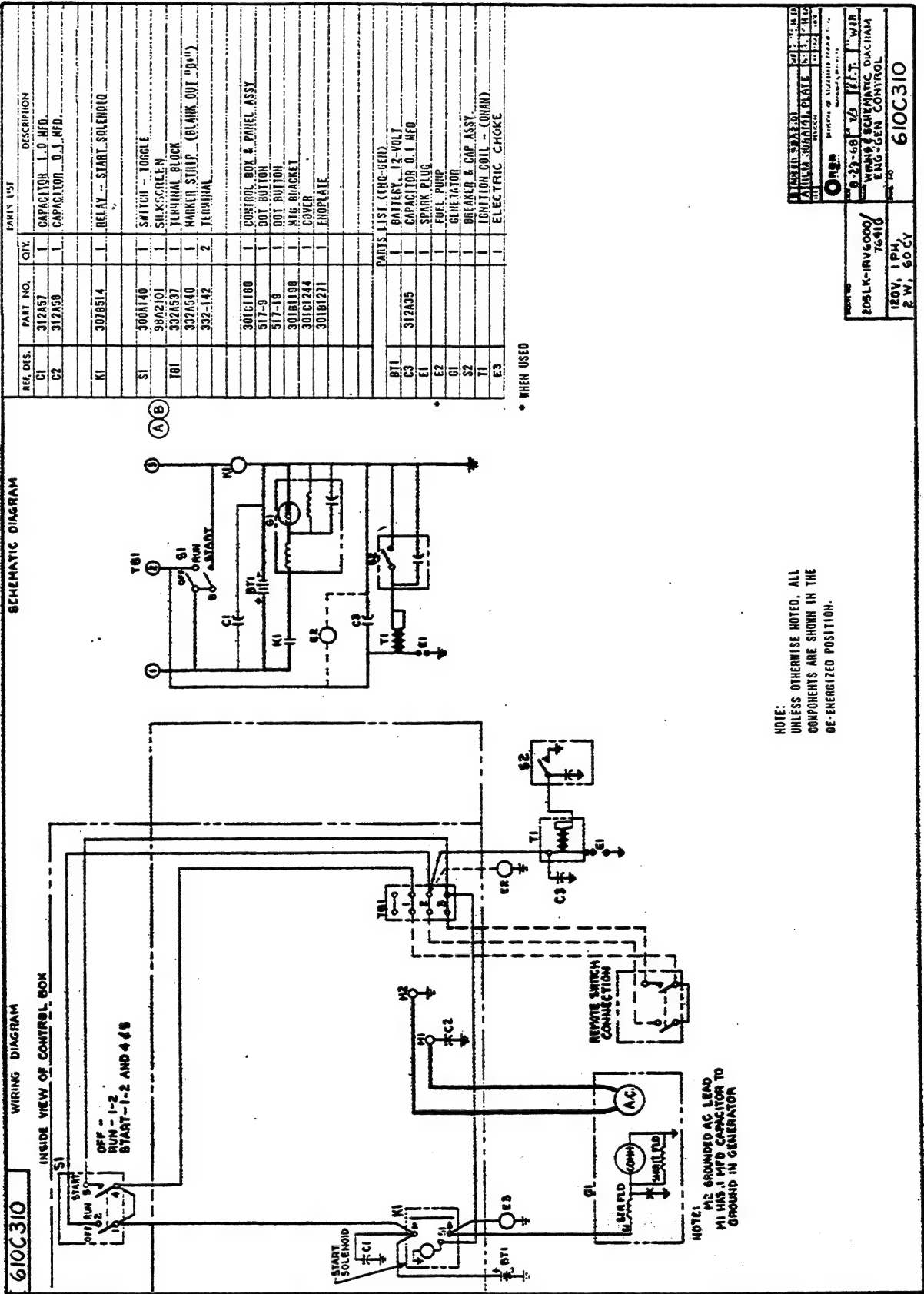
* WHEN USED

610C266

01 610C266/1/1

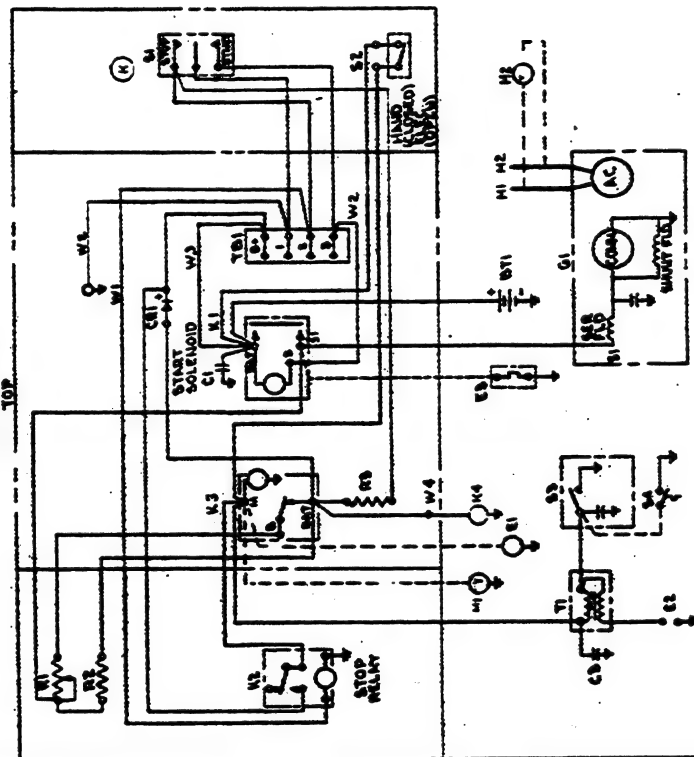
CONTROL-GEN SET (WIRING DIAGRAM)

610C266

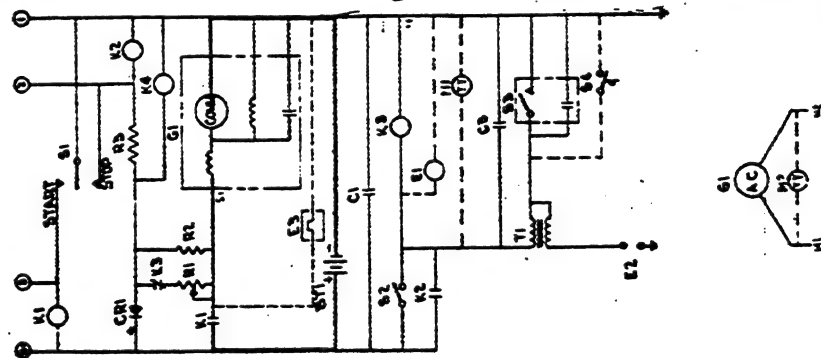


610C313

WIRING DIAGRAM INSIDE VIEW OF BOX TOP



SCHEMATIC



NOTE:
W2 IS GROUNDED AC LEAD
W1 HAS A .1 MFD CAPACITOR TO
GROUND IN GENERATOR.

PARTS LIST

REF. DES.	PART NO.	QTY	DESCRIPTION
C1	312A185	1	CAPACITOR ASSY
C2	305A494	1	DIODE ASSY
C3	305B335(REF)	1	DIODE-REVERSE CURRENT
K1	305A254(REF)	1	HEAT SHIELD
K2	307A1120	1	RELAY-START SOLENOID
K3	307B046	1	HEAT & LEAD ASSY-SIDE
K4	307B253(REF)	1	RELAY-STOP
R1	305A383	1	RELAY-2 STEP VOLTAGE
R2	304A175(REF)	1	RESISTOR ASSY
R3	304A344(REF)	1	RESISTOR-FIXED 1 OHM 25 W
R4	304A234	1	SWITCH ASSY-RUN START
S1	300P154(REF)	1	SWITCH-START/STOP
S2	331A121-REF	1	RESISTOR 30 OHM 5 W
S3	308A100	1	SWITCH 8 LEAD ASSY
S4	308P2	1	SWITCH (HAND-ELECT START)
T1	332A537	1	TERMINAL BLOCK
T2	332A556	1	MARKER STRIP
T3	336A2074	1	LEAD ASSY 10
T4	336A1045	2	LEAD ASSY 0
T5	336A2023	1	LEAD ASSY 12
T6	336A1590	1	LEAD ASSY 22
T7	30103101	1	CONTROL BOX
T8	3018102	1	COVER
T9	99A2117	1	SCREEN
T10	332-517	1	TERMINAL
T11	508-1	3	GROMMET
T12	610C313	1	BATTERY-12 VOLT
T13	312A162(REF)	1	CAPACITOR 0.1 MFD
T14	E1	1	FUEL PUMP
T15	E2	1	SPARK PLUG
T16	E3	1	CHOKER-ELECT
T17	E4	1	GENERATOR
T18	E5	1	BREAKER & CIR ASSEMBLY
T19	E6	1	SWITCH-HIGH AIR TEMP
T20	T1	1	IGNITION COIL (OHM)
T21	K4	1	SOLENOID-FUEL (GAS)
T22	307P312(REF)	1	SOLENOID-FUEL (GASOLINE)
T23	307P231(REF)	1	METER-RUNNING TIME, 12 VDC
T24	M1	1	METER-RUNNING TIME, AC
T25	M2	1	METER-RUNNING TIME, AC

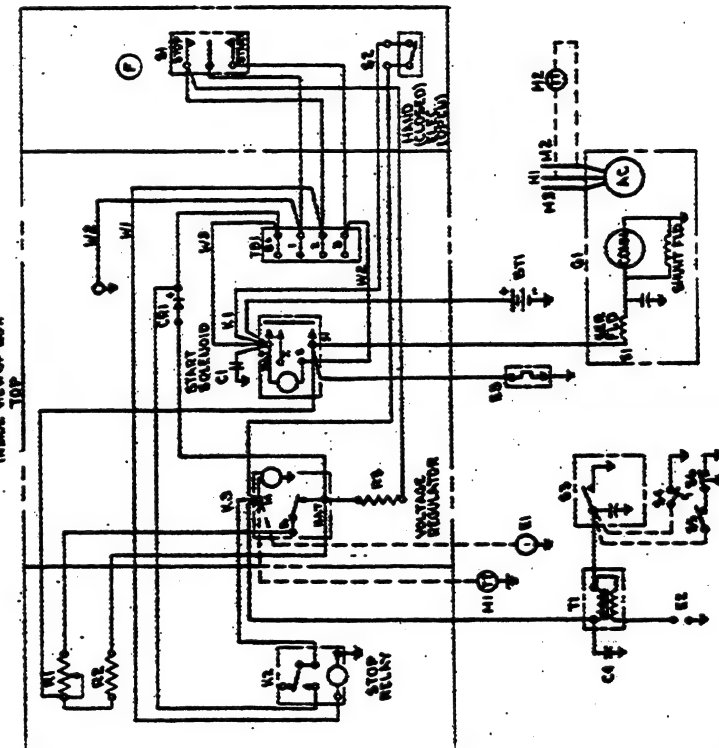
↑ WHEN USED

NOTE:
UNLESS OTHERWISE NOTED ALL
COMPONENTS ARE SHOWN IN THE
DE-ENERGIZED POSITION

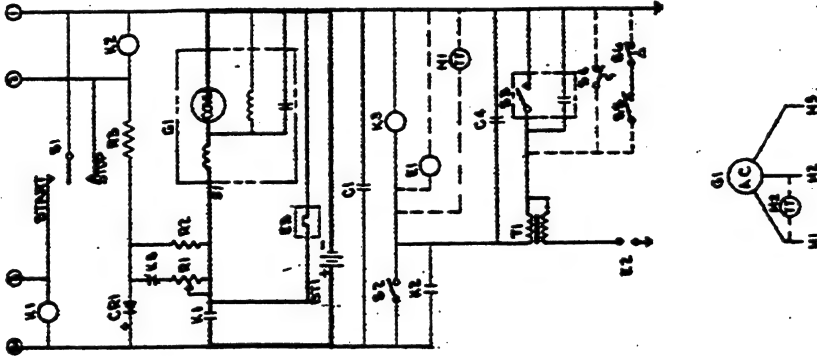
REF. DES.	PART NO.	QTY	DESCRIPTION
C1	312A185	1	CAPACITOR ASSY
C2	305A494	1	DIODE ASSY
C3	305B335(REF)	1	DIODE-REVERSE CURRENT
K1	305A254(REF)	1	HEAT SHIELD
K2	307A1120	1	RELAY-START SOLENOID
K3	307B046	1	HEAT & LEAD ASSY-SIDE
K4	307B253(REF)	1	RELAY-STOP
R1	305A383	1	RELAY-2 STEP VOLTAGE
R2	304A175(REF)	1	RESISTOR ASSY
R3	304A344(REF)	1	RESISTOR-FIXED 1 OHM 25 W
R4	304A234	1	SWITCH ASSY-RUN START
S1	300P154(REF)	1	SWITCH-START/STOP
S2	331A121-REF	1	RESISTOR 30 OHM 5 W
S3	308A100	1	SWITCH 8 LEAD ASSY
S4	308P2	1	SWITCH (HAND-ELECT START)
T1	332A537	1	TERMINAL BLOCK
T2	332A556	1	MARKER STRIP
T3	336A2074	1	LEAD ASSY 10
T4	336A1045	2	LEAD ASSY 0
T5	336A2023	1	LEAD ASSY 12
T6	336A1590	1	LEAD ASSY 22
T7	30103101	1	CONTROL BOX
T8	3018102	1	COVER
T9	99A2117	1	SCREEN
T10	332-517	1	TERMINAL
T11	508-1	3	GROMMET
T12	610C313	1	BATTERY-12 VOLT
T13	312A162(REF)	1	CAPACITOR 0.1 MFD
T14	E1	1	FUEL PUMP
T15	E2	1	SPARK PLUG
T16	E3	1	CHOKER-ELECT
T17	E4	1	GENERATOR
T18	E5	1	BREAKER & CIR ASSEMBLY
T19	E6	1	SWITCH-HIGH AIR TEMP
T20	T1	1	IGNITION COIL (OHM)
T21	K4	1	SOLENOID-FUEL (GAS)
T22	307P312(REF)	1	SOLENOID-FUEL (GASOLINE)
T23	307P231(REF)	1	METER-RUNNING TIME, 12 VDC
T24	M1	1	METER-RUNNING TIME, AC
T25	M2	1	METER-RUNNING TIME, AC

610C314

WIRING DIAGRAM
INSIDE VIEW OF BOX



SCHEMATIC



NOTE:
M2 IS GROUNDED AC LEAD
M1 & M3 HAVE .1 MFD CAPACITOR TO
GROUND IN GENERATOR.

REF. DES.	PART NO.	QTY.	DESCRIPTION
C1	312A185	1	CAPACITOR ASSY.
C2	305A204	1	DIODE ASSY.
CRI	305D235(REF)	1	DIODE-REVERSE CURRENT
K1	305A254(REF)	1	HEAT SINK
K2	307A1120	1	RELAY-START SOLENOID
K3	307D255(REF)	1	RELAY-STOP
R1	305A254(REF)	1	RELAY-STOP
R2	304A601	1	RESISTOR ASSY.
R3	304A125(REF)	1	RESISTOR-40Ω 1/2W 50 W
R4	304A125(REF)	1	RESISTOR-40Ω 1/2W 50 W
R5	304A125(REF)	1	RESISTOR-40Ω 1/2W 50 W
S1	308A294	1	SWITCH ASSY-RMT START
S2	308P154(REF)	1	SWITCH-START STOP
S3	304A251(REF)	1	RESISTOR 30 OHM 5 W
S4	308A300	1	SWITCH & LEAD ASSY
S5	308P2 (REF)	1	SWITCH (UNID-ELECT START)
T1	332A537	1	TERMINAL BLOCK
T2	332A506	1	MARKER STRIP
T3	332A204	1	LEAD ASSY 10"
T4	332A1049	2	LEAD ASSY 9"
T5	332A203	1	LEAD ASSY 12"
U1	301D3101	1	CONTROL BOX
U2	301B3102	1	COVER
U3	98A2117	1	SILKSCREEN
U4	332-517	1	TERMINAL
U5	500-1	3	DIODEMET
V1	610C314	1	BATTERY-12 VOLT
V2	312A102	1	CAPACITOR 0.1 MFD
V3	E1	1	FUEL PUMP OR SOL
V4	E2	1	SPARK PLUG
V5	E3	1	CHOKER-11.5C
V6	G1	1	GENERATOR
V7	S3	1	DIODE & CAP ASSEMBLY
V8	S4	1	SWITCH-HIGH AIR TEMP
V9	S5	1	SWITCH
V10	S6	1	SWITCH-LOW OIL PRESS
V11	S7	1	IGNITION COIL (ONAN)
V12	M1	1	METER-RUNNING TIME, 12 VDC
V13	M2	1	METER-RUNNING TIME, 120 VAC

• WHEN USED

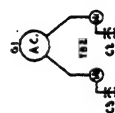
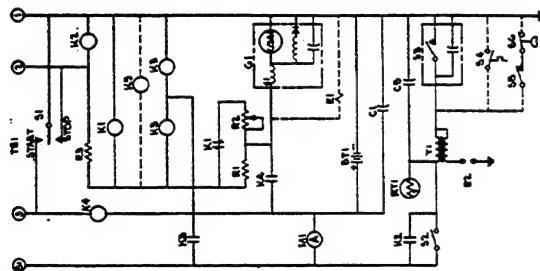
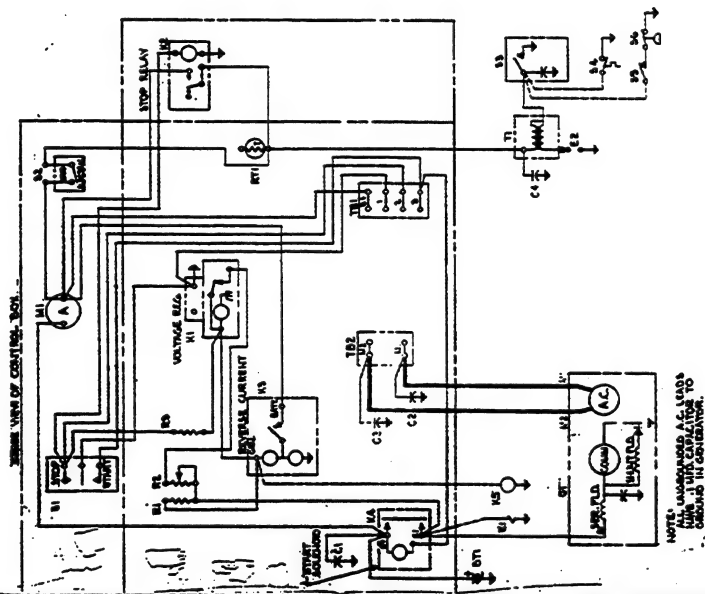
ITEM NO.	QTY.	DESCRIPTION
1	1	WIRING DIAGRAM
2	1	WIRING SCHEMATIC
3	1	WIRING CONTROL
4	1	WIRING CONTROL
5	1	WIRING CONTROL
6	1	WIRING CONTROL
7	1	WIRING CONTROL
8	1	WIRING CONTROL
9	1	WIRING CONTROL
10	1	WIRING CONTROL
11	1	WIRING CONTROL
12	1	WIRING CONTROL
13	1	WIRING CONTROL
14	1	WIRING CONTROL
15	1	WIRING CONTROL
16	1	WIRING CONTROL
17	1	WIRING CONTROL
18	1	WIRING CONTROL
19	1	WIRING CONTROL
20	1	WIRING CONTROL
21	1	WIRING CONTROL
22	1	WIRING CONTROL
23	1	WIRING CONTROL
24	1	WIRING CONTROL
25	1	WIRING CONTROL
26	1	WIRING CONTROL
27	1	WIRING CONTROL
28	1	WIRING CONTROL
29	1	WIRING CONTROL
30	1	WIRING CONTROL
31	1	WIRING CONTROL
32	1	WIRING CONTROL
33	1	WIRING CONTROL
34	1	WIRING CONTROL
35	1	WIRING CONTROL
36	1	WIRING CONTROL
37	1	WIRING CONTROL
38	1	WIRING CONTROL
39	1	WIRING CONTROL
40	1	WIRING CONTROL
41	1	WIRING CONTROL
42	1	WIRING CONTROL
43	1	WIRING CONTROL
44	1	WIRING CONTROL
45	1	WIRING CONTROL
46	1	WIRING CONTROL
47	1	WIRING CONTROL
48	1	WIRING CONTROL
49	1	WIRING CONTROL
50	1	WIRING CONTROL
51	1	WIRING CONTROL
52	1	WIRING CONTROL
53	1	WIRING CONTROL
54	1	WIRING CONTROL
55	1	WIRING CONTROL
56	1	WIRING CONTROL
57	1	WIRING CONTROL
58	1	WIRING CONTROL
59	1	WIRING CONTROL
60	1	WIRING CONTROL
61	1	WIRING CONTROL
62	1	WIRING CONTROL
63	1	WIRING CONTROL
64	1	WIRING CONTROL
65	1	WIRING CONTROL
66	1	WIRING CONTROL
67	1	WIRING CONTROL
68	1	WIRING CONTROL
69	1	WIRING CONTROL
70	1	WIRING CONTROL
71	1	WIRING CONTROL
72	1	WIRING CONTROL
73	1	WIRING CONTROL
74	1	WIRING CONTROL
75	1	WIRING CONTROL
76	1	WIRING CONTROL
77	1	WIRING CONTROL
78	1	WIRING CONTROL
79	1	WIRING CONTROL
80	1	WIRING CONTROL
81	1	WIRING CONTROL
82	1	WIRING CONTROL
83	1	WIRING CONTROL
84	1	WIRING CONTROL
85	1	WIRING CONTROL
86	1	WIRING CONTROL
87	1	WIRING CONTROL
88	1	WIRING CONTROL
89	1	WIRING CONTROL
90	1	WIRING CONTROL
91	1	WIRING CONTROL
92	1	WIRING CONTROL
93	1	WIRING CONTROL
94	1	WIRING CONTROL
95	1	WIRING CONTROL
96	1	WIRING CONTROL
97	1	WIRING CONTROL
98	1	WIRING CONTROL
99	1	WIRING CONTROL
100	1	WIRING CONTROL

NOTE:
UNLESS OTHERWISE NOTED, ALL
COMPONENTS ARE SHOWN IN THE
DE-ENERGIZED POSITION.

ITEM NO.	QTY.	DESCRIPTION
1	1	WIRING DIAGRAM
2	1	WIRING SCHEMATIC
3	1	WIRING CONTROL
4	1	WIRING CONTROL
5	1	WIRING CONTROL
6	1	WIRING CONTROL
7	1	WIRING CONTROL
8	1	WIRING CONTROL
9	1	WIRING CONTROL
10	1	WIRING CONTROL
11	1	WIRING CONTROL
12	1	WIRING CONTROL
13	1	WIRING CONTROL
14	1	WIRING CONTROL
15	1	WIRING CONTROL
16	1	WIRING CONTROL
17	1	WIRING CONTROL
18	1	WIRING CONTROL
19	1	WIRING CONTROL
20	1	WIRING CONTROL
21	1	WIRING CONTROL
22	1	WIRING CONTROL
23	1	WIRING CONTROL
24	1	WIRING CONTROL
25	1	WIRING CONTROL
26	1	WIRING CONTROL
27	1	WIRING CONTROL
28	1	WIRING CONTROL
29	1	WIRING CONTROL
30	1	WIRING CONTROL
31	1	WIRING CONTROL
32	1	WIRING CONTROL
33	1	WIRING CONTROL
34	1	WIRING CONTROL
35	1	WIRING CONTROL
36	1	WIRING CONTROL
37	1	WIRING CONTROL
38	1	WIRING CONTROL
39	1	WIRING CONTROL
40	1	WIRING CONTROL
41	1	WIRING CONTROL
42	1	WIRING CONTROL
43	1	WIRING CONTROL
44	1	WIRING CONTROL
45	1	WIRING CONTROL
46	1	WIRING CONTROL
47	1	WIRING CONTROL
48	1	WIRING CONTROL
49	1	WIRING CONTROL
50	1	WIRING CONTROL
51	1	WIRING CONTROL
52	1	WIRING CONTROL
53	1	WIRING CONTROL
54	1	WIRING CONTROL
55	1	WIRING CONTROL
56	1	WIRING CONTROL
57	1	WIRING CONTROL
58	1	WIRING CONTROL
59	1	WIRING CONTROL
60	1	WIRING CONTROL
61	1	WIRING CONTROL
62	1	WIRING CONTROL
63	1	WIRING CONTROL
64	1	WIRING CONTROL
65	1	WIRING CONTROL
66	1	WIRING CONTROL
67	1	WIRING CONTROL
68	1	WIRING CONTROL
69	1	WIRING CONTROL
70	1	WIRING CONTROL
71	1	WIRING CONTROL
72	1	WIRING CONTROL
73	1	WIRING CONTROL
74	1	WIRING CONTROL
75	1	WIRING CONTROL
76	1	WIRING CONTROL
77	1	WIRING CONTROL
78	1	WIRING CONTROL
79	1	WIRING CONTROL
80	1	WIRING CONTROL
81	1	WIRING CONTROL
82	1	WIRING CONTROL
83	1	WIRING CONTROL
84	1	WIRING CONTROL
85	1	WIRING CONTROL
86	1	WIRING CONTROL
87	1	WIRING CONTROL
88	1	WIRING CONTROL
89	1	WIRING CONTROL
90	1	WIRING CONTROL
91	1	WIRING CONTROL
92	1	WIRING CONTROL
93	1	WIRING CONTROL
94	1	WIRING CONTROL
95	1	WIRING CONTROL
96	1	WIRING CONTROL
97	1	WIRING CONTROL
98	1	WIRING CONTROL
99	1	WIRING CONTROL
100	1	WIRING CONTROL

610C315

SCHEMATIC DIAGRAM



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
C1	312A57	1	Capacitor, 1.0 MFD.
C2,3	312A58	2	Capacitor, 0.1 MFD.
K1	305A1	1	Relay, 2-Step Voltage Reg.
K2	307B253	1	Relay, Stop
K3	307B180	1	Relay, Reverse Current
K4	307B1046	1	Relay, Start Solenoid
M1	302A58	1	Ammeter, Charge 10-0-10
R1	304A344	1	Resistor, 1-Ohm, 25 Watt
R2	304A175	1	Resistor, 1-Ohm, 50 Watt, Adj.
R3	304A251	1	Resistor, 30-Ohm, 5 Watt
RT1	304A60	1	Resistor, Hytemco 1.72-Ohm, 25 Watt
S1	308P154	1	Switch, Stop/Start
S2	308P2	1	Switch, Hand, Electric, Start
TB1	332A537	1	Terminal Block
	332A539	1	Marker Strip
TB2	332A231	1	Terminal Block
	301C1160	1	Control Box & Panel Assy.
	301B1198	1	Mounting Bracket
	301C1244	1	Cover
	301B1271	1	Endplate
BT1	312A35	1	Battery, 12-Volt
C4	312A162	1	Capacitor 0.1 MFD. (Spec J Models)
*E1		1	Electric Choke
E2		1	Spark Plug
C1		1	Generator
*K5	307P312	1	Fuel Solenoid
S3		1	Breaker & Cap Assembly
*S4	309A2	1	Switch, High Air Temp.
*S5	308-97	1	Switch
*S6	309A10	1	Switch, Low Oil Pressure
T1		1	Ignition Coil (ONAN)

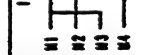
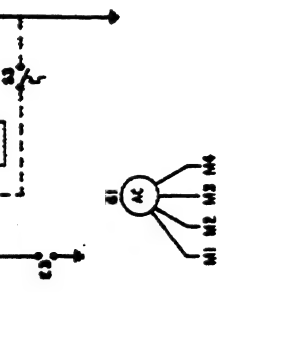
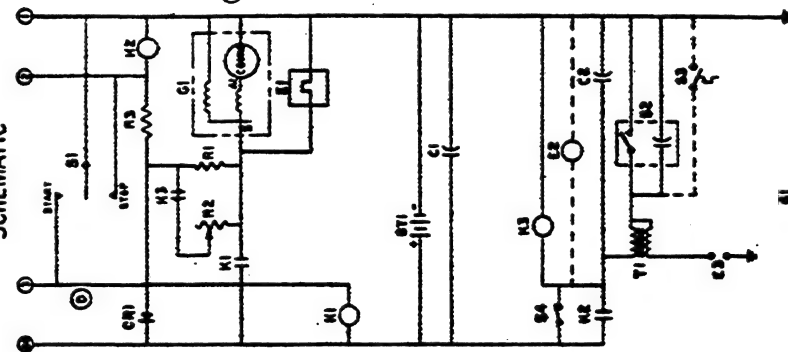
* - When Used.

DATE	1-23-53	BY	CH
TIME	10:00 PM	BY	CH
610C315			

610C338

610C338

WIRING DIAGRAM

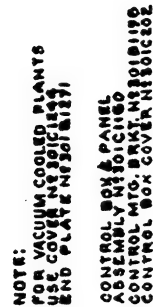


12 V REMOTE	-01 2.6LK-3CR/08017
-------------	---------------------



OPTION
OPTION
OPTION

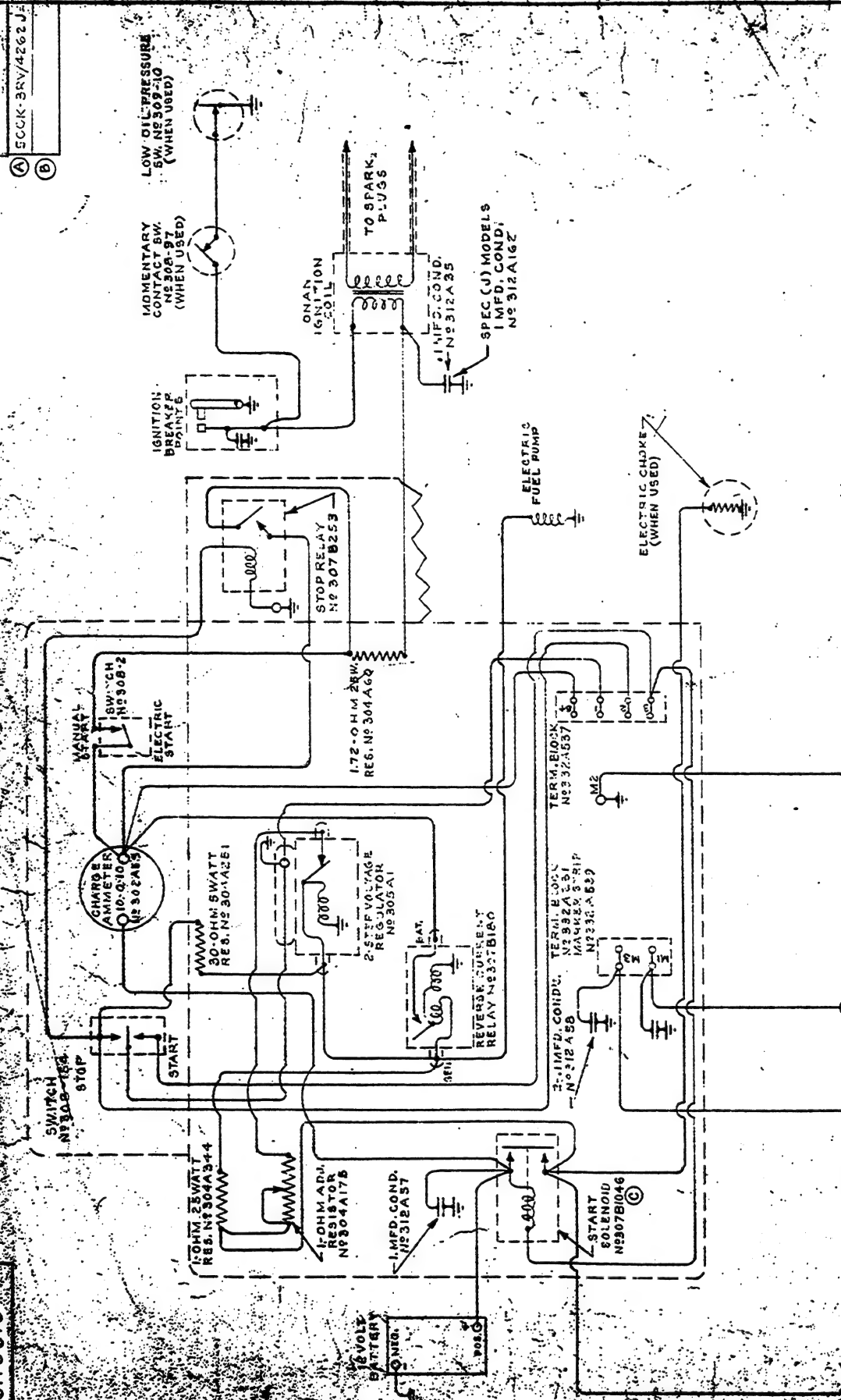
[illegible]



CONTROL BOX & PANEL
ASSEMBLY N1301C1160
CONTROL MTO. BRKT. N1301D1190
CONTROL BOX COVER N1301C202

PRESSURE COOLED	-01
VACUUM COOLED	-02

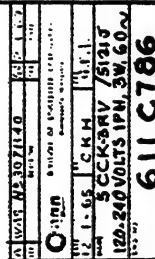
[illegible]

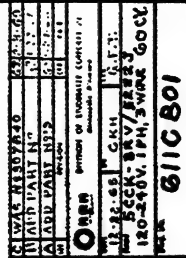


NOTE: FOR VACUUM COOLED PLANTS
USE COVER N°301C124
END PLATE N°301B127
CONTROL BOX 4 PANEL ASSY N°301C248
CONTROL MTC. BRKT. N°301B198
CONTROL BOX COVER N°301C202

[illegible]

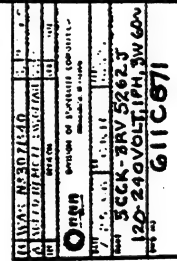
9-16-71 611C67C

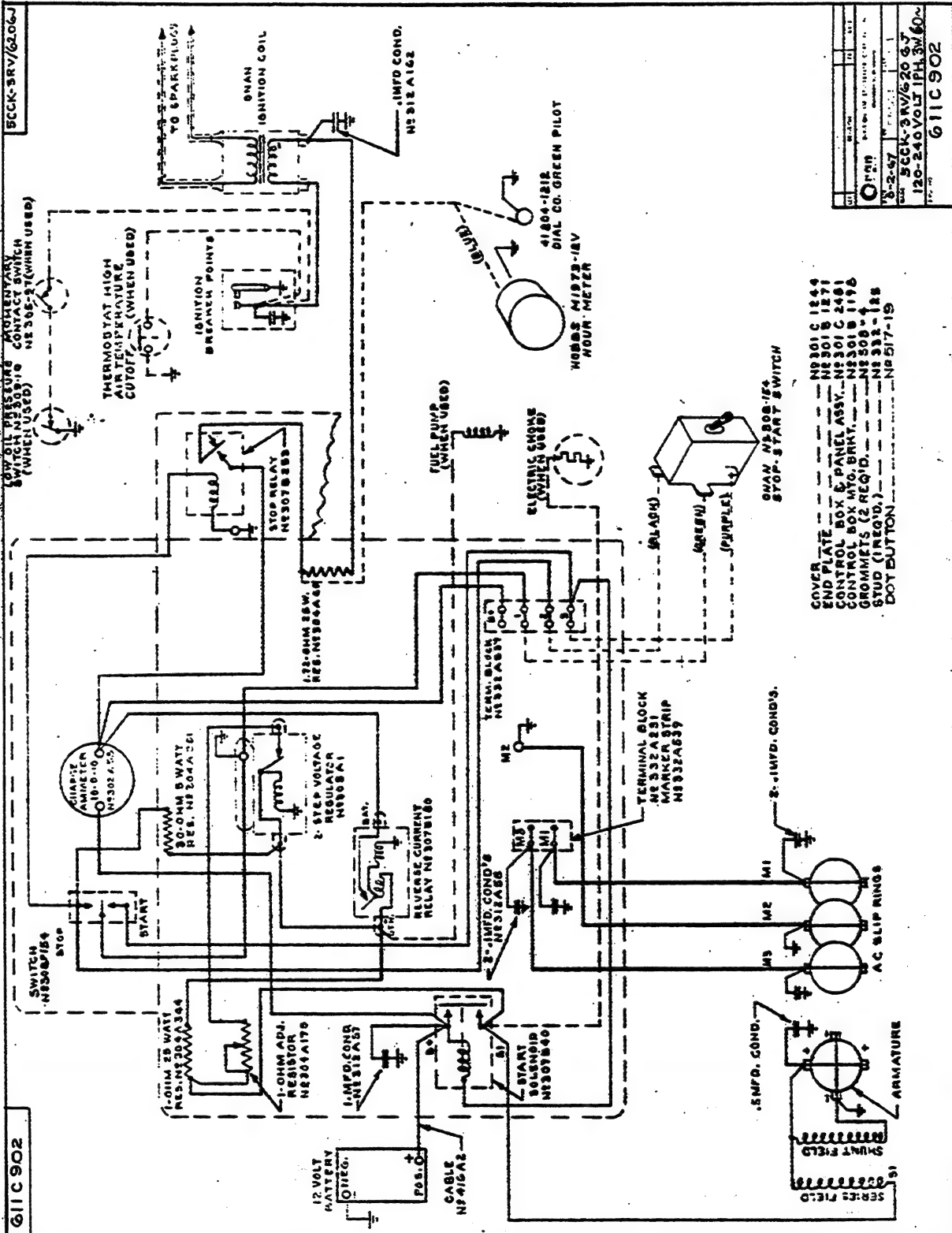




SCHEMATIC DIAGRAM

[illegible][illegible]





611C902	
56CK-3RV/620 4.7	
120-240VOLT 1PH 3W 60-	
611C902	

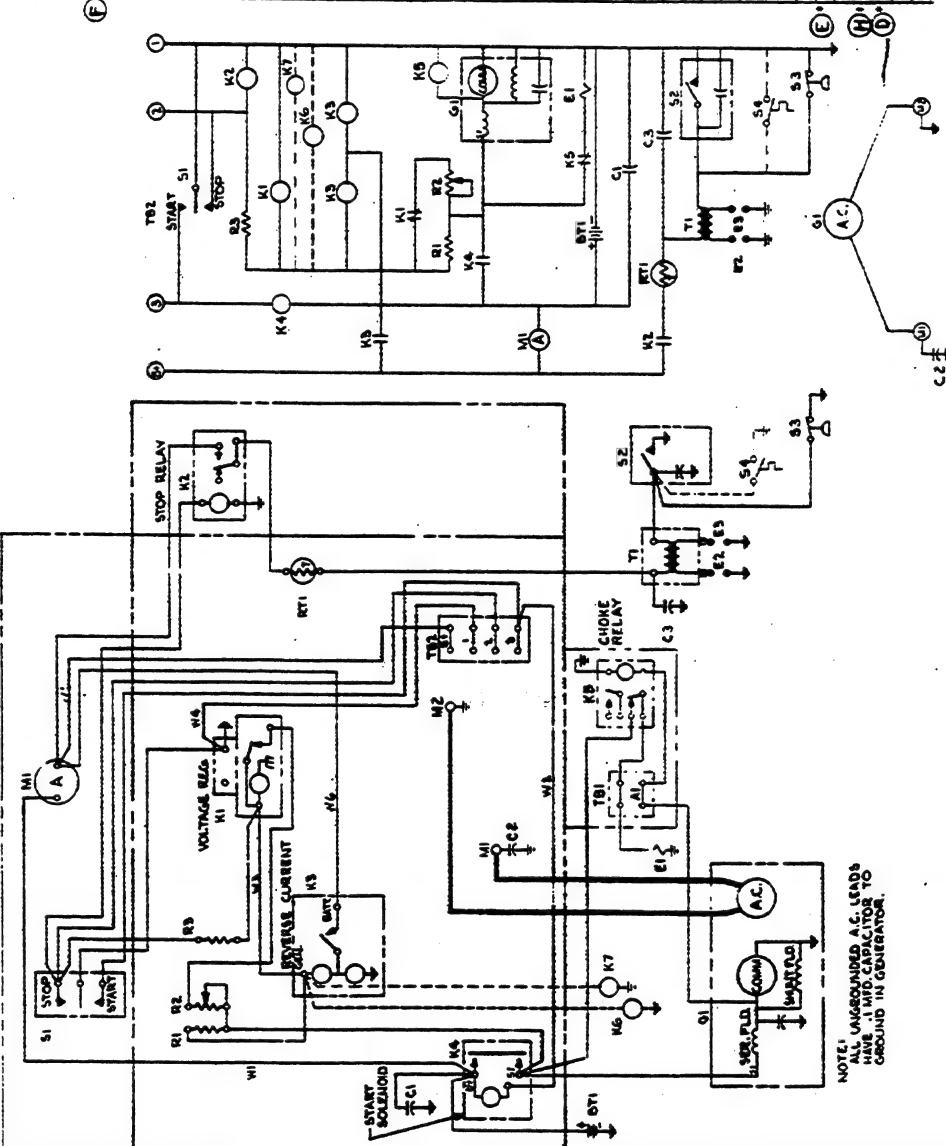
- COVER
- END PLATE
- CONTROL BOX & PANEL ASSY.
- CONTROL BOX MFG. BRKT.
- GROMMETS (2 REQ'D.)
- STUD (LINEQ'D.)
- DOT BUTTON
- N2301C 1244
- N2301C 1271
- N2301C 2481
- N2301B 1196
- N2308-4
- N2332-128
- N2317-19

61C914

WIRING DIAGRAM

SCHEMATIC DIAGRAM

INSIDE VIEW OF CONTROL BOX

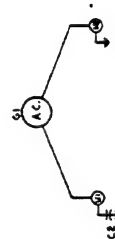


* WHEN USED

PART NO.	DESCRIPTION
C1	CAPACITOR ASSY 1.0 MFD
C2	CAPACITOR ASSY 0.1 MFD
K1	RELAY-2 STEP VOLTAGE ROLTR
K2	RELAY & LEAD ASSY
K3	RELAY-STOP
K4	RELAY-START SOLENOID
K5	RELAY & BOX ASSY
TB1	RELAY-CHOKE
M1	TERMINAL BLOCK
R1	ANMETER-CHARGE 10-0-10
R2	RESISTORS & LEAD ASSY
R3	RESISTOR-1 OHM, 25 W
R4	RESISTOR-1 OHM, 50 W AOJ
R5	RESISTOR & LEAD ASSY
R6	RESISTOR-HYDRO 1.72 OHM, 25 W
S1	SWITCH ASSY-INT START
S2	SWITCH-STOP/START
S3	RESISTOR-30 OHM, 5 W
T1	TERMINAL BLOCK
T2	MARKER STRIP
T3	TERMINAL FASTENER-PAPER
T4	CONTROL BOX & PANEL ASSY
T5	BRACKET-CONTROL BOX MFG
T6	COVER
T7	ENDPLATE
T8	SILKSCREEN
T9	BUTTON-DOT
T10	LEAD ASSY
T11	LEAD ASSY
T12	LEAD ASSY
T13	LEAD ASSY
T14	LEAD ASSY
T15	LEAD ASSY
T16	LEAD ASSY
T17	LEAD ASSY
T18	LEAD ASSY
T19	LEAD ASSY
T20	LEAD ASSY
T21	LEAD ASSY
T22	LEAD ASSY
T23	LEAD ASSY
T24	LEAD ASSY
T25	LEAD ASSY
T26	LEAD ASSY
T27	LEAD ASSY
T28	LEAD ASSY
T29	LEAD ASSY
T30	LEAD ASSY
T31	LEAD ASSY
T32	LEAD ASSY
T33	LEAD ASSY
T34	LEAD ASSY
T35	LEAD ASSY
T36	LEAD ASSY
T37	LEAD ASSY
T38	LEAD ASSY
T39	LEAD ASSY
T40	LEAD ASSY
T41	LEAD ASSY
T42	LEAD ASSY
T43	LEAD ASSY
T44	LEAD ASSY
T45	LEAD ASSY
T46	LEAD ASSY
T47	LEAD ASSY
T48	LEAD ASSY
T49	LEAD ASSY
T50	LEAD ASSY
T51	LEAD ASSY
T52	LEAD ASSY
T53	LEAD ASSY
T54	LEAD ASSY
T55	LEAD ASSY
T56	LEAD ASSY
T57	LEAD ASSY
T58	LEAD ASSY
T59	LEAD ASSY
T60	LEAD ASSY
T61	LEAD ASSY
T62	LEAD ASSY
T63	LEAD ASSY
T64	LEAD ASSY
T65	LEAD ASSY
T66	LEAD ASSY
T67	LEAD ASSY
T68	LEAD ASSY
T69	LEAD ASSY
T70	LEAD ASSY
T71	LEAD ASSY
T72	LEAD ASSY
T73	LEAD ASSY
T74	LEAD ASSY
T75	LEAD ASSY
T76	LEAD ASSY
T77	LEAD ASSY
T78	LEAD ASSY
T79	LEAD ASSY
T80	LEAD ASSY
T81	LEAD ASSY
T82	LEAD ASSY
T83	LEAD ASSY
T84	LEAD ASSY
T85	LEAD ASSY
T86	LEAD ASSY
T87	LEAD ASSY
T88	LEAD ASSY
T89	LEAD ASSY
T90	LEAD ASSY
T91	LEAD ASSY
T92	LEAD ASSY
T93	LEAD ASSY
T94	LEAD ASSY
T95	LEAD ASSY
T96	LEAD ASSY
T97	LEAD ASSY
T98	LEAD ASSY
T99	LEAD ASSY
T100	LEAD ASSY

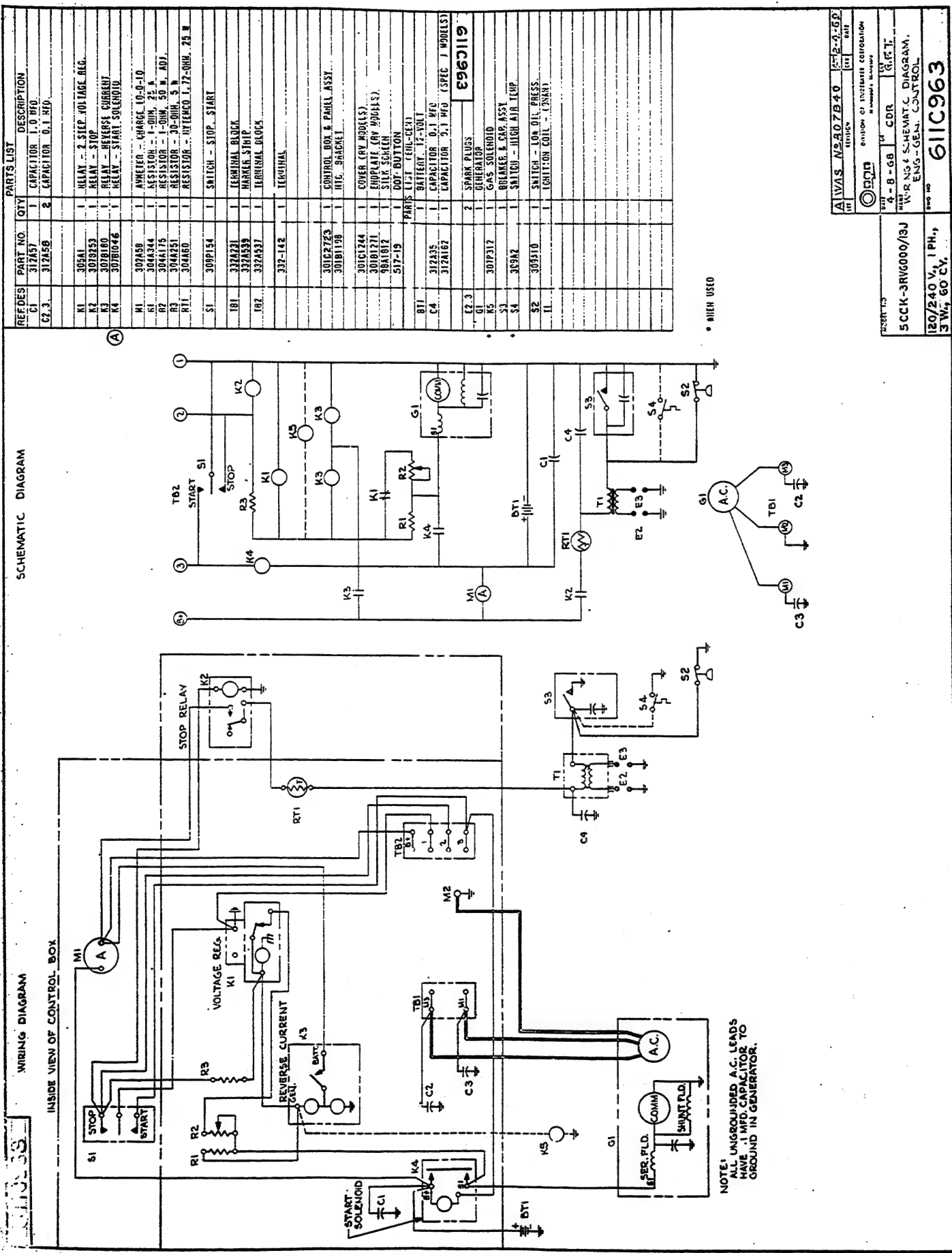
GENERAL REVISION	DATE	BY	CHKD
1	10/1/54	W. J. C.	
2	10/1/54	W. J. C.	
3	10/1/54	W. J. C.	
4	10/1/54	W. J. C.	
5	10/1/54	W. J. C.	
6	10/1/54	W. J. C.	
7	10/1/54	W. J. C.	
8	10/1/54	W. J. C.	
9	10/1/54	W. J. C.	
10	10/1/54	W. J. C.	
11	10/1/54	W. J. C.	
12	10/1/54	W. J. C.	
13	10/1/54	W. J. C.	
14	10/1/54	W. J. C.	
15	10/1/54	W. J. C.	
16	10/1/54	W. J. C.	
17	10/1/54	W. J. C.	
18	10/1/54	W. J. C.	
19	10/1/54	W. J. C.	
20	10/1/54	W. J. C.	
21	10/1/54	W. J. C.	
22	10/1/54	W. J. C.	
23	10/1/54	W. J. C.	
24	10/1/54	W. J. C.	
25	10/1/54	W. J. C.	
26	10/1/54	W. J. C.	
27	10/1/54	W. J. C.	
28	10/1/54	W. J. C.	
29	10/1/54	W. J. C.	
30	10/1/54	W. J. C.	
31	10/1/54	W. J. C.	
32	10/1/54	W. J. C.	
33	10/1/54	W. J. C.	
34	10/1/54	W. J. C.	
35	10/1/54	W. J. C.	
36	10/1/54	W. J. C.	
37	10/1/54	W. J. C.	
38	10/1/54	W. J. C.	
39	10/1/54	W. J. C.	
40	10/1/54	W. J. C.	
41	10/1/54	W. J. C.	
42	10/1/54	W. J. C.	
43	10/1/54	W. J. C.	
44	10/1/54	W. J. C.	
45	10/1/54	W. J. C.	
46	10/1/54	W. J. C.	
47	10/1/54	W. J. C.	
48	10/1/54	W. J. C.	
49	10/1/54	W. J. C.	
50	10/1/54	W. J. C.	
51	10/1/54	W. J. C.	
52	10/1/54	W. J. C.	
53	10/1/54	W. J. C.	
54	10/1/54	W. J. C.	
55	10/1/54	W. J. C.	
56	10/1/54	W. J. C.	
57	10/1/54	W. J. C.	
58	10/1/54	W. J. C.	
59	10/1/54	W. J. C.	
60	10/1/54	W. J. C.	
61	10/1/54	W. J. C.	
62	10/1/54	W. J. C.	
63	10/1/54	W. J. C.	
64	10/1/54	W. J. C.	
65	10/1/54	W. J. C.	
66	10/1/54	W. J. C.	
67	10/1/54	W. J. C.	
68	10/1/54	W. J. C.	
69	10/1/54	W. J. C.	
70	10/1/54	W. J. C.	
71	10/1/54	W. J. C.	
72	10/1/54	W. J. C.	
73	10/1/54	W. J. C.	
74	10/1/54	W. J. C.	
75	10/1/54	W. J. C.	
76	10/1/54	W. J. C.	
77	10/1/54	W. J. C.	
78	10/1/54	W. J. C.	
79	10/1/54	W. J. C.	
80	10/1/54	W. J. C.	
81	10/1/54	W. J. C.	
82	10/1/54	W. J. C.	
83	10/1/54	W. J. C.	
84	10/1/54	W. J. C.	
85	10/1/54	W. J. C.	
86	10/1/54	W. J. C.	
87	10/1/54	W. J. C.	
88	10/1/54	W. J. C.	
89	10/1/54	W. J. C.	
90	10/1/54	W. J. C.	
91	10/1/54	W. J. C.	
92	10/1/54	W. J. C.	
93	10/1/54	W. J. C.	
94	10/1/54	W. J. C.	
95	10/1/54	W. J. C.	
96	10/1/54	W. J. C.	
97	10/1/54	W. J. C.	
98	10/1/54	W. J. C.	
99	10/1/54	W. J. C.	
100	10/1/54	W. J. C.	

61C914



*** - When Used.**

8104A N1507840 211-21-1
 12 ADDD W00000 NS 151524
 13 151524 151524
 14 151524 151524
 15 151524 151524
 16 151524 151524
 17 151524 151524
 18 151524 151524
 19 151524 151524
 20 151524 151524
 21 151524 151524
 22 151524 151524
 23 151524 151524
 24 151524 151524
 25 151524 151524
 26 151524 151524
 27 151524 151524
 28 151524 151524
 29 151524 151524
 30 151524 151524
 31 151524 151524
 32 151524 151524
 33 151524 151524
 34 151524 151524
 35 151524 151524
 36 151524 151524
 37 151524 151524
 38 151524 151524
 39 151524 151524
 40 151524 151524
 41 151524 151524
 42 151524 151524
 43 151524 151524
 44 151524 151524
 45 151524 151524
 46 151524 151524
 47 151524 151524
 48 151524 151524
 49 151524 151524
 50 151524 151524
 51 151524 151524
 52 151524 151524
 53 151524 151524
 54 151524 151524
 55 151524 151524
 56 151524 151524
 57 151524 151524
 58 151524 151524
 59 151524 151524
 60 151524 151524
 61 151524 151524
 62 151524 151524
 63 151524 151524
 64 151524 151524
 65 151524 151524
 66 151524 151524
 67 151524 151524
 68 151524 151524
 69 151524 151524
 70 151524 151524
 71 151524 151524
 72 151524 151524
 73 151524 151524
 74 151524 151524
 75 151524 151524
 76 151524 151524
 77 151524 151524
 78 151524 151524
 79 151524 151524
 80 151524 151524
 81 151524 151524
 82 151524 151524
 83 151524 151524
 84 151524 151524
 85 151524 151524
 86 151524 151524
 87 151524 151524
 88 151524 151524
 89 151524 151524
 90 151524 151524
 91 151524 151524
 92 151524 151524
 93 151524 151524
 94 151524 151524
 95 151524 151524
 96 151524 151524
 97 151524 151524
 98 151524 151524
 99 151524 151524
 100 151524 151524



611C975

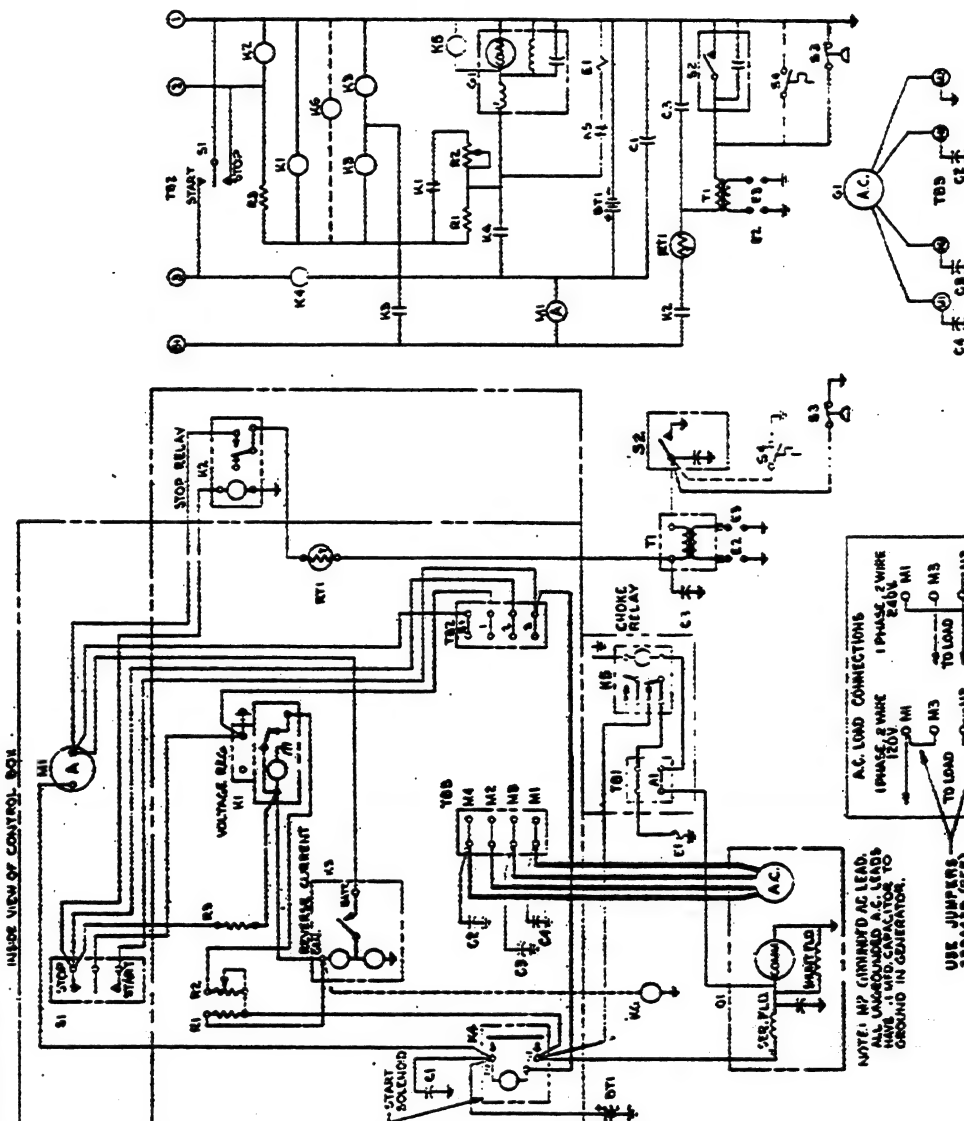
WIRING DIAGRAM

SCHEMATIC DIAGRAM

PARTS LIST

REF DES	PART NO.	QTY	DESCRIPTION
C1	317A57	1	CAPACITOR 1.0 MFD.
C2, C4	317A58	2	CAPACITOR 0.1 MFD.
C3	317A56	1	CAPACITOR 0.1 MFD 250VAC
K1	305A1	1	RELAY - 2 STEP VOLTAGE REG.
K2	307B253	1	RELAY - STOP
K3	307B180	1	RELAY - REVERSE COUNTER
K4	307B104 G	1	RELAY - START SILENCH
K5	307B642	1	RELAY - CHARGE
R1	302A58	1	RESISTOR - 10-0-10
R2	304A344	1	RESISTOR - 1-00M, 25 W.
R3	304A175	1	RESISTOR - 1-00M, 50 W.
R4	304A251	1	RESISTOR - 30-00M, 5 W.
R5	304A60	1	RESISTOR - 10-0-10, 25 W.
S1	300P134	1	SWITCH - STOP - START
TB1	332A607	1	TERMINAL BLOCK
TB2	332A537	1	TERMINAL BLOCK
TB3	332A763	1	TERMINAL BLOCK
	332A254	1	MARKER STRIP
	332A435	1	MARKER STRIP
	332A130	2	JOINTER-TERMINAL
	301C2723	1	CONTROL BOX & PANEL ASSY
	301C1198	1	RELAY - STOP
	301B2722	1	RELAY - STOP
	301C1244	1	COVER
	301C1211	1	ENDPLATE
	90A1012	1	SILE SCREEN
	517-19	1	DOT BUTTON
		1	PARTS LIST (ENC-GEN)
		1	BATTERY 12-VOLT
		1	CAPACITOR 0.1 MFD (SPEC. J MOUNT)
		2	SPARK PLUGS
		1	GENERATOR
		1	FUEL COIL (WHEN USED)
		1	DIAPHRAGM & CAP ASSY
		1	SWITCH-HIGH AIR TEMP
		1	SAFETY - LOCK OIL PRESS.
		1	IGNITION COIL - (ONAN)

* WHEN USED



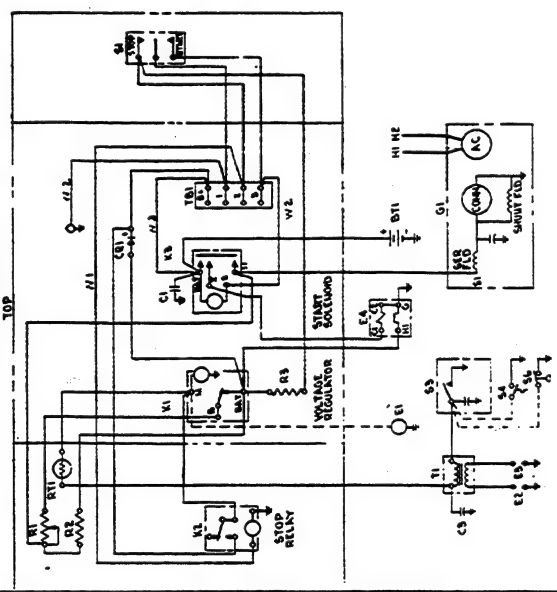
DATE	12/2/55
BY	J. L. JONES
CHKD	J. L. JONES
APP'D	J. L. JONES
REVISION	1
DESCRIPTION	WIRING DIAGRAM
QUANTITY	1
DATE	12/2/55
BY	J. L. JONES
CHKD	J. L. JONES
APP'D	J. L. JONES
REVISION	1
DESCRIPTION	WIRING DIAGRAM
QUANTITY	1
DATE	12/2/55
BY	J. L. JONES
CHKD	J. L. JONES
APP'D	J. L. JONES
REVISION	1
DESCRIPTION	WIRING DIAGRAM
QUANTITY	1

(C)

611C975

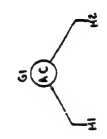
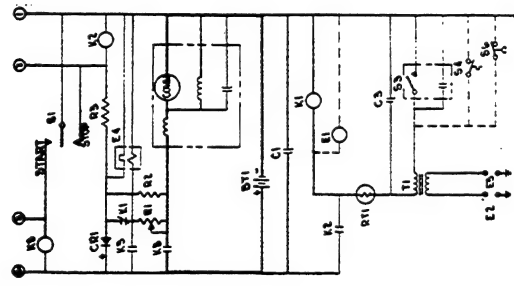
611C1002-1

WIRING DIAGRAM
IN BACK VIEW OF BOX
TOP



NOTE
IF IT IS GUARANTEED BY THE
MANUFACTURER, THE
GROUPS IN GROUPS

SCHEMATIC



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
CI	312A185	1	Capacitor Assembly
	312A57(Ref)	1	Capacitor 1.0 MFD.
CR1	305A494	1	Diode Assembly
	305B235(Ref)	1	Diode, Reverse Current
K1	305A254(Ref)	1	Heat Sink
	305B383	1	Relay, 2-Step Voltage Ref.
K2	307A1120	1	Relay & Lead Assy-Stop
K3	307B253(Ref)	1	Relay, Stop
	307B845	1	Relay, Start Solenoid
R1	304A681	1	Resistor Assembly
R2	304A175(Ref)	1	Resistor, Adj, 1-Ohm, 50Watt
	304A344(Ref)	1	Resistor, 1-Ohm, 25Watt
RT1	304A680	1	Resistor & Lead Assembly
	304A60(Ref)	1	Resistor, Hytemco 1.72-Ohm, 25 Watt
SI	308A294	1	Switch Assembly, RMT Start
R3	308P154(Ref)	1	Switch, Start/Stop
TBI	304A251(Ref)	1	Resistor, 30-Ohm, 5 Watt
	332A537	1	Terminal Block
WI	332A566	1	Marker Strip
W2	336A2024	1	Lead Assembly 16"
W3	336A1045	1	Lead Assembly 8"
	336A2023	1	Lead Assembly 12"
	301B3227	1	Bracket, Control Box Mtg.
	301D3228	1	Control Box
	301B3102	1	Cover
	332-142	3	Terminal
	508-1	1	Grommet
	517-19	1	D6-Button
BT1		1	Battery, 12-Volt
C3	312A162	1	Capacitor 0.1 MFD.
*E1		1	Fuel Pump
E2, 3		2	Spark Plug
E4		1	Choke, Thermo-Mag.
G1		1	Generator
S3		1	Breaker & Cap Assembly
*S4	309A2	1	Switch-High Air Temp.
*S6	309A10	1	Switch-Low Oil Pressure
T1		1	Ignition Coil (ONAN)

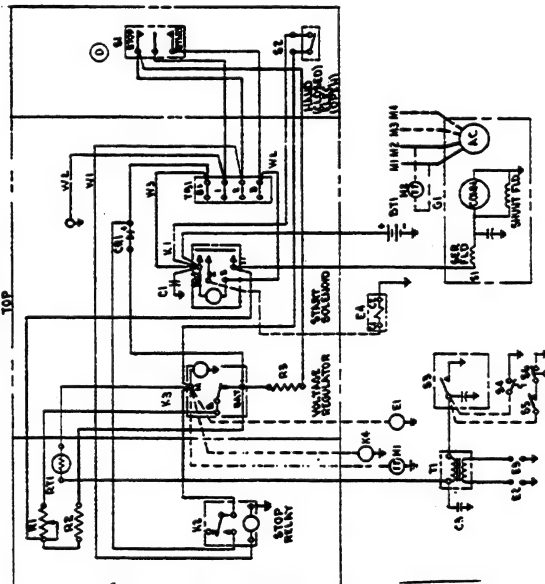
* - When Used.

REVISION	DATE	BY
1	10/10/61	W.H.
2	10/10/61	W.H.
3	10/10/61	W.H.
4	10/10/61	W.H.
5	10/10/61	W.H.
6	10/10/61	W.H.
7	10/10/61	W.H.
8	10/10/61	W.H.
9	10/10/61	W.H.
10	10/10/61	W.H.
11	10/10/61	W.H.
12	10/10/61	W.H.
13	10/10/61	W.H.
14	10/10/61	W.H.
15	10/10/61	W.H.
16	10/10/61	W.H.
17	10/10/61	W.H.
18	10/10/61	W.H.
19	10/10/61	W.H.
20	10/10/61	W.H.
21	10/10/61	W.H.
22	10/10/61	W.H.
23	10/10/61	W.H.
24	10/10/61	W.H.
25	10/10/61	W.H.
26	10/10/61	W.H.
27	10/10/61	W.H.
28	10/10/61	W.H.
29	10/10/61	W.H.
30	10/10/61	W.H.
31	10/10/61	W.H.
32	10/10/61	W.H.
33	10/10/61	W.H.
34	10/10/61	W.H.
35	10/10/61	W.H.
36	10/10/61	W.H.
37	10/10/61	W.H.
38	10/10/61	W.H.
39	10/10/61	W.H.
40	10/10/61	W.H.
41	10/10/61	W.H.
42	10/10/61	W.H.
43	10/10/61	W.H.
44	10/10/61	W.H.
45	10/10/61	W.H.
46	10/10/61	W.H.
47	10/10/61	W.H.
48	10/10/61	W.H.
49	10/10/61	W.H.
50	10/10/61	W.H.
51	10/10/61	W.H.
52	10/10/61	W.H.
53	10/10/61	W.H.
54	10/10/61	W.H.
55	10/10/61	W.H.
56	10/10/61	W.H.
57	10/10/61	W.H.
58	10/10/61	W.H.
59	10/10/61	W.H.
60	10/10/61	W.H.
61	10/10/61	W.H.
62	10/10/61	W.H.
63	10/10/61	W.H.
64	10/10/61	W.H.
65	10/10/61	W.H.
66	10/10/61	W.H.
67	10/10/61	W.H.
68	10/10/61	W.H.
69	10/10/61	W.H.
70	10/10/61	W.H.
71	10/10/61	W.H.
72	10/10/61	W.H.
73	10/10/61	W.H.
74	10/10/61	W.H.
75	10/10/61	W.H.
76	10/10/61	W.H.
77	10/10/61	W.H.
78	10/10/61	W.H.
79	10/10/61	W.H.
80	10/10/61	W.H.
81	10/10/61	W.H.
82	10/10/61	W.H.
83	10/10/61	W.H.
84	10/10/61	W.H.
85	10/10/61	W.H.
86	10/10/61	W.H.
87	10/10/61	W.H.
88	10/10/61	W.H.
89	10/10/61	W.H.
90	10/10/61	W.H.
91	10/10/61	W.H.
92	10/10/61	W.H.
93	10/10/61	W.H.
94	10/10/61	W.H.
95	10/10/61	W.H.
96	10/10/61	W.H.
97	10/10/61	W.H.
98	10/10/61	W.H.
99	10/10/61	W.H.
100	10/10/61	W.H.

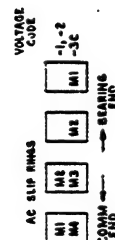
611C1002

611C1035

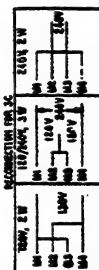
WIRING DIAGRAM
INSIDE VIEW OF BOX



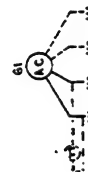
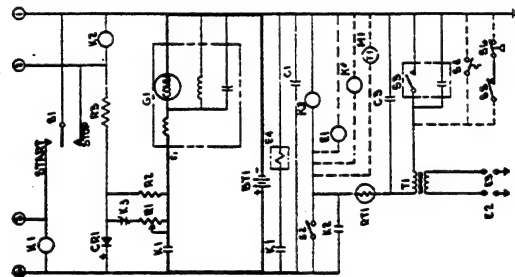
NOTE:
BT IS CHARGED AC LED
OTHERS ARE NOT. BUT CONNECTION IS
SHOWN IN SCHEMATIC.



PLACE SLIP RINGS ON INSIDE OF COVER



SCHEMATIC



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
C1	312A185	1	Capacitor Assembly
	305A494	1	Diode Assembly
CR1	305B235(Ref)	1	Diode, Reverse Current
	305A254(Ref)	1	Heat Sink
K1	307B845	1	Relay, Start Solenoid
K2	307A1120	1	Relay & Lead Assy., Stop
K3	307B253(Ref)	1	Relay, Stop
	305B383	1	Relay, 2-Step Voltage
	304A681	1	Resistor Assembly
R1	304A175(Ref)	1	Resistor, Adj., 1-Ohm, 50Watt
R2	304A344(Ref)	1	Resistor, Fixed 1-Ohm, 25Watt
	304A680	1	Resistor & Lead Assembly
RT1	304A60(Ref)	1	Resistor, 1-72-Ohm, 25Watt
	308A294	1	Switch Assy., RMT Start
S1	308P154(Ref)	1	Switch, Start/Stop
R3	304A251(Ref)	1	Resistor, 30-Ohm, 5Watt
	308A300	1	Switch & Lead Assembly
S2	308P2(Ref)	1	Switch (Hand/Elect. Start)
TB1	332A537	1	Terminal Block
	332A566	1	Marker Strip
W1	336A2024	1	Lead Assy., 16"
W2	336A1045	2	Lead Assy., 8"
W3	336A2023	1	Lead Assy., 12"
	301B3227	1	Bracket, Control Box Mtg.
	301D3228	1	Control Box
	301B3102	1	Cover
	508-1	3	Grommet
BT1		1	Battery, 12-Volt
C3	312A162	1	Capacitor 0.1 MFD.
E1		1	Fuel Pump
E2,3		2	Spark Plug
*E4		1	Choke, Sisson
G1		1	Generator
S3		1	Breaker & Cap Assembly
*S4	309A2	1	Switch, High Air Temp.
*S5	308-97	1	Switch
*S6	309A10	1	Switch, Low Oil Pressure
T1		1	Ignition Coil (ONAN)
*K4		1	Solenoid, Gas
*M1		1	Meter, Running Time, 12VDC
*M2		1	Meter, Running Time, 120VDC

* - When Used.

ITEM NO.	DESCRIPTION	QTY.	REMARKS
1	WIRING DIAGRAM	1	WIRING DIAGRAM
2	WIRING DIAGRAM	1	WIRING DIAGRAM
3	WIRING DIAGRAM	1	WIRING DIAGRAM
4	WIRING DIAGRAM	1	WIRING DIAGRAM
5	WIRING DIAGRAM	1	WIRING DIAGRAM
6	WIRING DIAGRAM	1	WIRING DIAGRAM
7	WIRING DIAGRAM	1	WIRING DIAGRAM
8	WIRING DIAGRAM	1	WIRING DIAGRAM
9	WIRING DIAGRAM	1	WIRING DIAGRAM
10	WIRING DIAGRAM	1	WIRING DIAGRAM
11	WIRING DIAGRAM	1	WIRING DIAGRAM
12	WIRING DIAGRAM	1	WIRING DIAGRAM
13	WIRING DIAGRAM	1	WIRING DIAGRAM
14	WIRING DIAGRAM	1	WIRING DIAGRAM
15	WIRING DIAGRAM	1	WIRING DIAGRAM
16	WIRING DIAGRAM	1	WIRING DIAGRAM
17	WIRING DIAGRAM	1	WIRING DIAGRAM
18	WIRING DIAGRAM	1	WIRING DIAGRAM
19	WIRING DIAGRAM	1	WIRING DIAGRAM
20	WIRING DIAGRAM	1	WIRING DIAGRAM
21	WIRING DIAGRAM	1	WIRING DIAGRAM
22	WIRING DIAGRAM	1	WIRING DIAGRAM
23	WIRING DIAGRAM	1	WIRING DIAGRAM
24	WIRING DIAGRAM	1	WIRING DIAGRAM
25	WIRING DIAGRAM	1	WIRING DIAGRAM
26	WIRING DIAGRAM	1	WIRING DIAGRAM
27	WIRING DIAGRAM	1	WIRING DIAGRAM
28	WIRING DIAGRAM	1	WIRING DIAGRAM
29	WIRING DIAGRAM	1	WIRING DIAGRAM
30	WIRING DIAGRAM	1	WIRING DIAGRAM
31	WIRING DIAGRAM	1	WIRING DIAGRAM
32	WIRING DIAGRAM	1	WIRING DIAGRAM
33	WIRING DIAGRAM	1	WIRING DIAGRAM
34	WIRING DIAGRAM	1	WIRING DIAGRAM
35	WIRING DIAGRAM	1	WIRING DIAGRAM
36	WIRING DIAGRAM	1	WIRING DIAGRAM
37	WIRING DIAGRAM	1	WIRING DIAGRAM
38	WIRING DIAGRAM	1	WIRING DIAGRAM
39	WIRING DIAGRAM	1	WIRING DIAGRAM
40	WIRING DIAGRAM	1	WIRING DIAGRAM
41	WIRING DIAGRAM	1	WIRING DIAGRAM
42	WIRING DIAGRAM	1	WIRING DIAGRAM
43	WIRING DIAGRAM	1	WIRING DIAGRAM
44	WIRING DIAGRAM	1	WIRING DIAGRAM
45	WIRING DIAGRAM	1	WIRING DIAGRAM
46	WIRING DIAGRAM	1	WIRING DIAGRAM
47	WIRING DIAGRAM	1	WIRING DIAGRAM
48	WIRING DIAGRAM	1	WIRING DIAGRAM
49	WIRING DIAGRAM	1	WIRING DIAGRAM
50	WIRING DIAGRAM	1	WIRING DIAGRAM
51	WIRING DIAGRAM	1	WIRING DIAGRAM
52	WIRING DIAGRAM	1	WIRING DIAGRAM
53	WIRING DIAGRAM	1	WIRING DIAGRAM
54	WIRING DIAGRAM	1	WIRING DIAGRAM
55	WIRING DIAGRAM	1	WIRING DIAGRAM
56	WIRING DIAGRAM	1	WIRING DIAGRAM
57	WIRING DIAGRAM	1	WIRING DIAGRAM
58	WIRING DIAGRAM	1	WIRING DIAGRAM
59	WIRING DIAGRAM	1	WIRING DIAGRAM
60	WIRING DIAGRAM	1	WIRING DIAGRAM
61	WIRING DIAGRAM	1	WIRING DIAGRAM
62	WIRING DIAGRAM	1	WIRING DIAGRAM
63	WIRING DIAGRAM	1	WIRING DIAGRAM
64	WIRING DIAGRAM	1	WIRING DIAGRAM
65	WIRING DIAGRAM	1	WIRING DIAGRAM
66	WIRING DIAGRAM	1	WIRING DIAGRAM
67	WIRING DIAGRAM	1	WIRING DIAGRAM
68	WIRING DIAGRAM	1	WIRING DIAGRAM
69	WIRING DIAGRAM	1	WIRING DIAGRAM
70	WIRING DIAGRAM	1	WIRING DIAGRAM
71	WIRING DIAGRAM	1	WIRING DIAGRAM
72	WIRING DIAGRAM	1	WIRING DIAGRAM
73	WIRING DIAGRAM	1	WIRING DIAGRAM
74	WIRING DIAGRAM	1	WIRING DIAGRAM
75	WIRING DIAGRAM	1	WIRING DIAGRAM
76	WIRING DIAGRAM	1	WIRING DIAGRAM
77	WIRING DIAGRAM	1	WIRING DIAGRAM
78	WIRING DIAGRAM	1	WIRING DIAGRAM
79	WIRING DIAGRAM	1	WIRING DIAGRAM
80	WIRING DIAGRAM	1	WIRING DIAGRAM
81	WIRING DIAGRAM	1	WIRING DIAGRAM
82	WIRING DIAGRAM	1	WIRING DIAGRAM
83	WIRING DIAGRAM	1	WIRING DIAGRAM
84	WIRING DIAGRAM	1	WIRING DIAGRAM
85	WIRING DIAGRAM	1	WIRING DIAGRAM
86	WIRING DIAGRAM	1	WIRING DIAGRAM
87	WIRING DIAGRAM	1	WIRING DIAGRAM
88	WIRING DIAGRAM	1	WIRING DIAGRAM
89	WIRING DIAGRAM	1	WIRING DIAGRAM
90	WIRING DIAGRAM	1	WIRING DIAGRAM
91	WIRING DIAGRAM	1	WIRING DIAGRAM
92	WIRING DIAGRAM	1	WIRING DIAGRAM
93	WIRING DIAGRAM	1	WIRING DIAGRAM
94	WIRING DIAGRAM	1	WIRING DIAGRAM
95	WIRING DIAGRAM	1	WIRING DIAGRAM
96	WIRING DIAGRAM	1	WIRING DIAGRAM
97	WIRING DIAGRAM	1	WIRING DIAGRAM
98	WIRING DIAGRAM	1	WIRING DIAGRAM
99	WIRING DIAGRAM	1	WIRING DIAGRAM
100	WIRING DIAGRAM	1	WIRING DIAGRAM

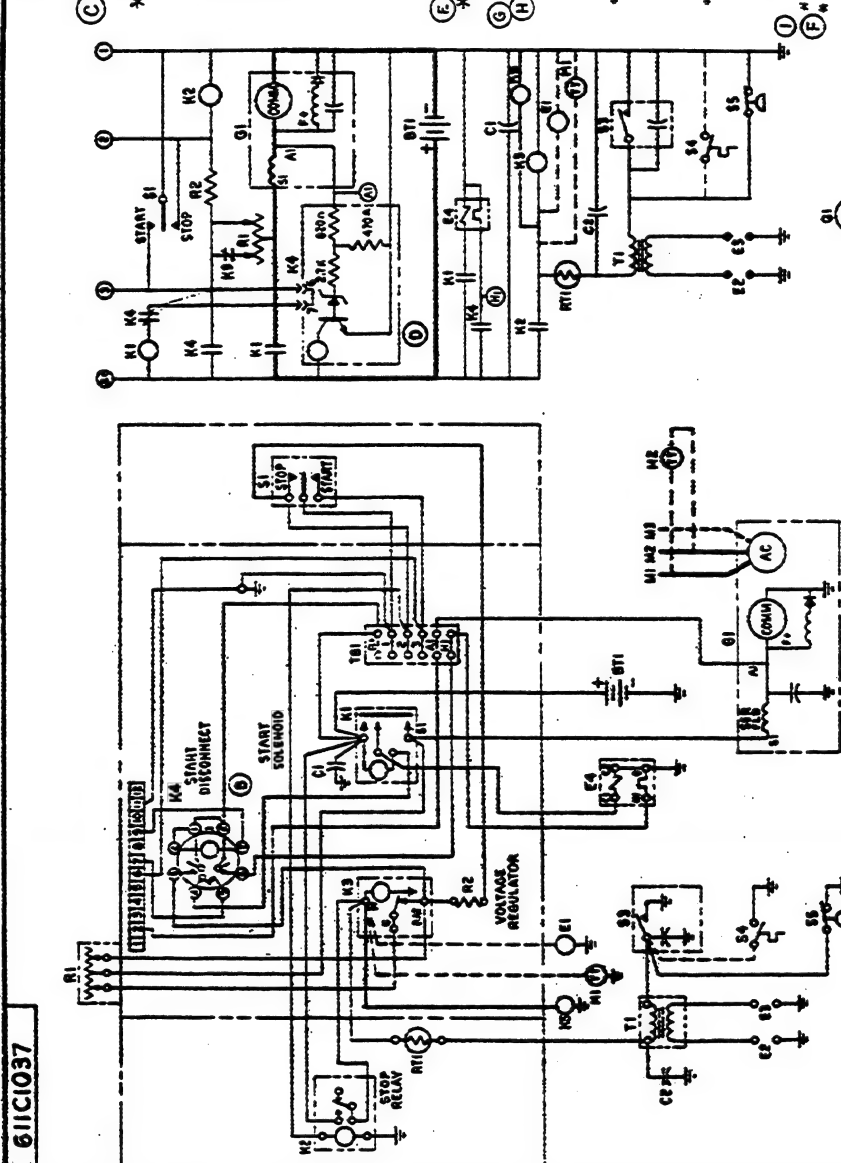
611C1035

[illegible]

611C1037

REF. DES.	PART NO.	QTY.	DESCRIPTION
C1	312A1R5	1	CAPACITOR ASSY
K1	3070R45	1	RELAY-START SOLENOID
K2	3070R45	1	RELAY-STOP
K3	3050R33	1	RELAY-VOLTAGE DUTY (2 STEP)
K4	308R29	1	RELAY-ASSY-START DISC
R1	304A403	1	RESISTOR-TAPPED (LOW-ON CHG)
RT1	304A603	1	RESISTOR-LEAD ASSY
RT1	304A603(REF)	1	RESISTOR-FIXED 25 W. 1.7Ω
S1	308R29	1	SWITCH ASSY-INT START
S1	308R29	1	SWITCH-TOGGLE (START-STOP)
R2	304A25(REF)	1	RESISTOR-FIXED 30 OHM, 5 W
TB1	332A099	1	TERMINAL BLOCK
	332A128	1	MARKER STRIP
	30103735	1	RESISTOR MTG BOX
	30103727	1	ORACNET-CONT BOX MTG
	30103733	1	CONTROL BOX
	30103102	1	COVER
	80A7117	1	SILKSCREEN
	508-1	4	GROUNDFT
	3070R70 (REF)	1	RELAY-START DISCONNECT
	300R734 (REF)	1	AMPLIFIER-START DISC
	323B002 (REF)	1	SOCKET ASSY-START DISC
	300A330G(REF)	1	SPRING
			(FHC-GIN) (REF)
B11		1	BATTERY-12VOLT
C2	312A1R2	1	CAPACITOR 0.1 MFD
E1		1	FUEL PUMP
E2,3		2	SPARK PLUG
E4		1	CHOK-THRU-HAC
G1		1	GENERATOR
S3		1	BULB-2 CAP ASSEMBLY
S4	309A2	1	SWITCH-HIGH AIR TERT
S5	309A10	1	SWITCH-LOW OIL PRESS
T1		1	IGNITION COIL
		1	(ONM)
K5		1	VALVE-POSITIVE FUEL SOL SHUT OFF
M1		1	METER-RUNNING TIME, 12 VDC
M2		1	METER-RUNNING TIME, 120 VAC

• WHEN USED



NOTE:
M2 IS GROUND AC LEAD
M1 & M3 HAVE 1 MFD CAPACITOR TO
GROUND IN GENERATOR



ITEM	DESCRIPTION	QTY
1	START VALVE	1
2	START VALVE (2) BUNGE	2
3	START VALVE (2) BUNGE	2
4	START VALVE (2) BUNGE	2
5	START VALVE (2) BUNGE	2
6	START VALVE (2) BUNGE	2
7	START VALVE (2) BUNGE	2
8	START VALVE (2) BUNGE	2
9	START VALVE (2) BUNGE	2
10	START VALVE (2) BUNGE	2
11	START VALVE (2) BUNGE	2
12	START VALVE (2) BUNGE	2
13	START VALVE (2) BUNGE	2
14	START VALVE (2) BUNGE	2
15	START VALVE (2) BUNGE	2
16	START VALVE (2) BUNGE	2
17	START VALVE (2) BUNGE	2
18	START VALVE (2) BUNGE	2
19	START VALVE (2) BUNGE	2
20	START VALVE (2) BUNGE	2
21	START VALVE (2) BUNGE	2
22	START VALVE (2) BUNGE	2
23	START VALVE (2) BUNGE	2
24	START VALVE (2) BUNGE	2
25	START VALVE (2) BUNGE	2
26	START VALVE (2) BUNGE	2
27	START VALVE (2) BUNGE	2
28	START VALVE (2) BUNGE	2
29	START VALVE (2) BUNGE	2
30	START VALVE (2) BUNGE	2
31	START VALVE (2) BUNGE	2
32	START VALVE (2) BUNGE	2
33	START VALVE (2) BUNGE	2
34	START VALVE (2) BUNGE	2
35	START VALVE (2) BUNGE	2
36	START VALVE (2) BUNGE	2
37	START VALVE (2) BUNGE	2
38	START VALVE (2) BUNGE	2
39	START VALVE (2) BUNGE	2
40	START VALVE (2) BUNGE	2
41	START VALVE (2) BUNGE	2
42	START VALVE (2) BUNGE	2
43	START VALVE (2) BUNGE	2
44	START VALVE (2) BUNGE	2
45	START VALVE (2) BUNGE	2
46	START VALVE (2) BUNGE	2
47	START VALVE (2) BUNGE	2
48	START VALVE (2) BUNGE	2
49	START VALVE (2) BUNGE	2
50	START VALVE (2) BUNGE	2
51	START VALVE (2) BUNGE	2
52	START VALVE (2) BUNGE	2
53	START VALVE (2) BUNGE	2
54	START VALVE (2) BUNGE	2
55	START VALVE (2) BUNGE	2
56	START VALVE (2) BUNGE	2
57	START VALVE (2) BUNGE	2
58	START VALVE (2) BUNGE	2
59	START VALVE (2) BUNGE	2
60	START VALVE (2) BUNGE	2
61	START VALVE (2) BUNGE	2
62	START VALVE (2) BUNGE	2
63	START VALVE (2) BUNGE	2
64	START VALVE (2) BUNGE	2
65	START VALVE (2) BUNGE	2
66	START VALVE (2) BUNGE	2
67	START VALVE (2) BUNGE	2
68	START VALVE (2) BUNGE	2
69	START VALVE (2) BUNGE	2
70	START VALVE (2) BUNGE	2
71	START VALVE (2) BUNGE	2
72	START VALVE (2) BUNGE	2
73	START VALVE (2) BUNGE	2
74	START VALVE (2) BUNGE	2
75	START VALVE (2) BUNGE	2
76	START VALVE (2) BUNGE	2
77	START VALVE (2) BUNGE	2
78	START VALVE (2) BUNGE	2
79	START VALVE (2) BUNGE	2
80	START VALVE (2) BUNGE	2
81	START VALVE (2) BUNGE	2
82	START VALVE (2) BUNGE	2
83	START VALVE (2) BUNGE	2
84	START VALVE (2) BUNGE	2
85	START VALVE (2) BUNGE	2
86	START VALVE (2) BUNGE	2
87	START VALVE (2) BUNGE	2
88	START VALVE (2) BUNGE	2
89	START VALVE (2) BUNGE	2
90	START VALVE (2) BUNGE	2
91	START VALVE (2) BUNGE	2
92	START VALVE (2) BUNGE	2
93	START VALVE (2) BUNGE	2
94	START VALVE (2) BUNGE	2
95	START VALVE (2) BUNGE	2
96	START VALVE (2) BUNGE	2
97	START VALVE (2) BUNGE	2
98	START VALVE (2) BUNGE	2
99	START VALVE (2) BUNGE	2
100	START VALVE (2) BUNGE	2

ITEM	DESCRIPTION	QTY
1	START VALVE	1
2	START VALVE (2) BUNGE	2
3	START VALVE (2) BUNGE	2
4	START VALVE (2) BUNGE	2
5	START VALVE (2) BUNGE	2
6	START VALVE (2) BUNGE	2
7	START VALVE (2) BUNGE	2
8	START VALVE (2) BUNGE	2
9	START VALVE (2) BUNGE	2
10	START VALVE (2) BUNGE	2
11	START VALVE (2) BUNGE	2
12	START VALVE (2) BUNGE	2
13	START VALVE (2) BUNGE	2
14	START VALVE (2) BUNGE	2
15	START VALVE (2) BUNGE	2
16	START VALVE (2) BUNGE	2
17	START VALVE (2) BUNGE	2
18	START VALVE (2) BUNGE	2
19	START VALVE (2) BUNGE	2
20	START VALVE (2) BUNGE	2
21	START VALVE (2) BUNGE	2
22	START VALVE (2) BUNGE	2
23	START VALVE (2) BUNGE	2
24	START VALVE (2) BUNGE	2
25	START VALVE (2) BUNGE	2
26	START VALVE (2) BUNGE	2
27	START VALVE (2) BUNGE	2
28	START VALVE (2) BUNGE	2
29	START VALVE (2) BUNGE	2
30	START VALVE (2) BUNGE	2
31	START VALVE (2) BUNGE	2
32	START VALVE (2) BUNGE	2
33	START VALVE (2) BUNGE	2
34	START VALVE (2) BUNGE	2
35	START VALVE (2) BUNGE	2
36	START VALVE (2) BUNGE	2
37	START VALVE (2) BUNGE	2
38	START VALVE (2) BUNGE	2
39	START VALVE (2) BUNGE	2
40	START VALVE (2) BUNGE	2
41	START VALVE (2) BUNGE	2
42	START VALVE (2) BUNGE	2
43	START VALVE (2) BUNGE	2
44	START VALVE (2) BUNGE	2
45	START VALVE (2) BUNGE	2
46	START VALVE (2) BUNGE	2
47	START VALVE (2) BUNGE	2
48	START VALVE (2) BUNGE	2
49	START VALVE (2) BUNGE	2
50	START VALVE (2) BUNGE	2
51	START VALVE (2) BUNGE	2
52	START VALVE (2) BUNGE	2
53	START VALVE (2) BUNGE	2
54	START VALVE (2) BUNGE	2
55	START VALVE (2) BUNGE	2
56	START VALVE (2) BUNGE	2
57	START VALVE (2) BUNGE	2
58	START VALVE (2) BUNGE	2
59	START VALVE (2) BUNGE	2
60	START VALVE (2) BUNGE	2
61	START VALVE (2) BUNGE	2
62	START VALVE (2) BUNGE	2
63	START VALVE (2) BUNGE	2
64	START VALVE (2) BUNGE	2
65	START VALVE (2) BUNGE	2
66	START VALVE (2) BUNGE	2
67	START VALVE (2) BUNGE	2
68	START VALVE (2) BUNGE	2
69	START VALVE (2) BUNGE	2
70	START VALVE (2) BUNGE	2
71	START VALVE (2) BUNGE	2
72	START VALVE (2) BUNGE	2
73	START VALVE (2) BUNGE	2
74	START VALVE (2) BUNGE	2
75	START VALVE (2) BUNGE	2
76	START VALVE (2) BUNGE	2
77	START VALVE (2) BUNGE	2
78	START VALVE (2) BUNGE	2
79	START VALVE (2) BUNGE	2
80	START VALVE (2) BUNGE	2
81	START VALVE (2) BUNGE	2
82	START VALVE (2) BUNGE	2
83	START VALVE (2) BUNGE	2
84	START VALVE (2) BUNGE	2
85	START VALVE (2) BUNGE	2
86	START VALVE (2) BUNGE	2
87	START VALVE (2) BUNGE	2
88	START VALVE (2) BUNGE	2
89	START VALVE (2) BUNGE	2
90	START VALVE (2) BUNGE	2
91	START VALVE (2) BUNGE	2
92	START VALVE (2) BUNGE	2
93	START VALVE (2) BUNGE	2
94	START VALVE (2) BUNGE	2
95	START VALVE (2) BUNGE	2
96	START VALVE (2) BUNGE	2
97	START VALVE (2) BUNGE	2
98	START VALVE (2) BUNGE	2
99	START VALVE (2) BUNGE	2
100	START VALVE (2) BUNGE	2

ITEM	DESCRIPTION	QTY
1	START VALVE	1
2	START VALVE (2) BUNGE	2
3	START VALVE (2) BUNGE	2
4	START VALVE (2) BUNGE	2
5	START VALVE (2) BUNGE	2
6	START VALVE (2) BUNGE	2
7	START VALVE (2) BUNGE	2
8	START VALVE (2) BUNGE	2
9	START VALVE (2) BUNGE	2
10	START VALVE (2) BUNGE	2
11	START VALVE (2) BUNGE	2
12	START VALVE (2) BUNGE	2
13	START VALVE (2) BUNGE	2
14	START VALVE (2) BUNGE	2
15	START VALVE (2) BUNGE	2
16	START VALVE (2) BUNGE	2
17	START VALVE (2) BUNGE	2
18	START VALVE (2) BUNGE	2
19	START VALVE (2) BUNGE	2
20	START VALVE (2) BUNGE	2
21	START VALVE (2) BUNGE	2
22	START VALVE (2) BUNGE	2
23	START VALVE (2) BUNGE	2
24	START VALVE (2) BUNGE	2
25	START VALVE (2) BUNGE	2
26	START VALVE (2) BUNGE	2
27	START VALVE (2) BUNGE	2
28	START VALVE (2) BUNGE	2
29	START VALVE (2) BUNGE	2
30	START VALVE (2) BUNGE	2
31	START VALVE (2) BUNGE	2
32	START VALVE (2) BUNGE	2
33	START VALVE (2) BUNGE	2
34	START VALVE (2) BUNGE	2
35	START VALVE (2) BUNGE	2
36	START VALVE (2) BUNGE	2
37	START VALVE (2) BUNGE	2
38	START VALVE (2) BUNGE	2
39	START VALVE (2) BUNGE	2
40	START VALVE (2) BUNGE	2
41	START VALVE (2) BUNGE	2
42	START VALVE (2) BUNGE	2
43	START VALVE (2) BUNGE	2
44	START VALVE (2) BUNGE	2
45	START VALVE (2) BUNGE	2
46	START VALVE (2) BUNGE	2
47	START VALVE (2) BUNGE	2
48	START VALVE (2) BUNGE	2
49	START VALVE (2) BUNGE	2
50	START VALVE (2) BUNGE	2
51	START VALVE (2) BUNGE	2
52	START VALVE (2) BUNGE	2
53	START VALVE (2) BUNGE	2
54	START VALVE (2) BUNGE	2
55	START VALVE (2) BUNGE	2
56	START VALVE (2) BUNGE	2
57	START VALVE (2) BUNGE	2
58	START VALVE (2) BUNGE	2
59	START VALVE (2) BUNGE	2
60	START VALVE (2) BUNGE	2
61	START VALVE (2) BUNGE	2
62	START VALVE (2) BUNGE	2
63	START VALVE (2) BUNGE	2
64	START VALVE (2) BUNGE	2
65	START VALVE (2) BUNGE	2
66	START VALVE (2) BUNGE	2
67	START VALVE (2) BUNGE	2
68	START VALVE (2) BUNGE	2
69	START VALVE (2) BUNGE	2
70	START VALVE (2) BUNGE	2
71	START VALVE (2) BUNGE	2
72	START VALVE (2) BUNGE	2
73	START VALVE (2) BUNGE	2
74	START VALVE (2) BUNGE	2
75	START VALVE (2) BUNGE	2
76	START VALVE (2) BUNGE	2
77	START VALVE (2) BUNGE	2
78	START VALVE (2) BUNGE	2
79	START VALVE (2) BUNGE	2
80	START VALVE (2) BUNGE	2
81	START VALVE (2) BUNGE	2
82	START VALVE (2) BUNGE	2
83	START VALVE (2) BUNGE	2
84	START VALVE (2) BUNGE	2
85	START VALVE (2) BUNGE	2
86	START VALVE (2) BUNGE	2
87	START VALVE (2) BUNGE	2
88	START VALVE (2) BUNGE	2
89	START VALVE (2) BUNGE	2
90	START VALVE (2) BUNGE	2
91	START VALVE (2) BUNGE	2
92	START VALVE (2) BUNGE	2
93	START VALVE (2) BUNGE	2
94	START VALVE (2) BUNGE	2
95	START VALVE (2) BUNGE	2
96	START VALVE (2) BUNGE	2
97	START VALVE (2) BUNGE	2
98	START VALVE (2) BUNGE	2
99	START VALVE (2) BUNGE	2
100	START VALVE (2) BUNGE	2

NOTE: UNLESS OTHERWISE NOTED, COMPONENTS ARE SHOWN IN DE-ENERGIZED POSITION

NOTE: UNLESS OTHERWISE NOTED, COMPONENTS ARE SHOWN IN DE-ENERGIZED POSITION

NOTE: UNLESS OTHERWISE NOTED, COMPONENTS ARE SHOWN IN DE-ENERGIZED POSITION

NOTE: UNLESS OTHERWISE NOTED, COMPONENTS ARE SHOWN IN DE-ENERGIZED POSITION

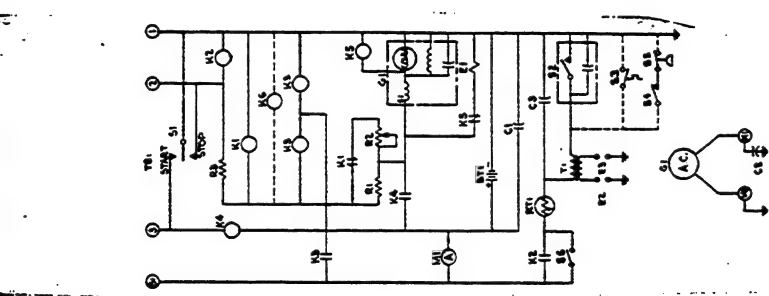
NOTE: UNLESS OTHERWISE NOTED, COMPONENTS ARE SHOWN IN DE-ENERGIZED POSITION

NOTE: UNLESS OTHERWISE NOTED, COMPONENTS ARE SHOWN IN DE-ENERGIZED POSITION

NOTE:

611C1039
REV. 1-7-77

SCHEMATIC DIAGRAM



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
C1	312A57	1	Capacitor 1.0 MFD.
C2	312A58	1	Capacitor 0.1 MFD.
K1	305A1	1	Relay, 2-Step Voltage Reg.
K2	307B253	1	Relay, Stop
K3	307B180	1	Relay, Reverse Current
K4	307B1046	1	Relay, Start Solenoid
K5	307B642	1	Relay, Choke
M1	302A58	1	Ammeter, Choke 10-0-10
R1	304A344	1	Resistor, 1-Ohm, 25Watt
R2	304A175	1	Resistor, 1-Ohm, 50Watt, Adj.
R3	304A251	1	Resistor, 30-Ohm, 5Watt
RT1	304A60	1	Resistor, Hitemco, 1.72-Ohm, 25 Watt
S1	308PI54	1	Switch, Start/Stop
S6	308P2	1	Switch, Hand/Elect. Start
TBI	332A537	1	Terminal Block
	332A540	1	Marker Strip
TB2	332-142	2	Terminal
	332A609	1	Terminal Block
	301B2722	1	Relay & Terminal Block Box
	301C2723	1	Control Box & Panel Assy.
	301B1198	1	Mounting Bracket
	301C1244	1	Cover
	301B1271	1	Endplate
BT1		1	Battery, 12-Volt
C3	312A35(Ref)	1	Capacitor 0.1 MFD.
	312A162(Ref)	1	Capacitor 0.1 MFD. (Spec J Models)
*E1		1	Choke, Slisson Electric
E2, 3		2	Spark Plugs
G1		1	Generator
*K6	307P312(Ref)	1	Fuel Solenoid
S2		1	Breaker & Cap Assembly
*S3	309A2(Ref)	1	Switch, High Air Temp.
*S4	308-97(Ref)	1	Switch
*S5	309A10(Ref)	1	Switch, Low Oil Pressure
T1		1	Ignition Coil - (ONAN)

* - When Used.

611C1039

REV. 1-7-77

ENGINE CONTROL SYSTEM

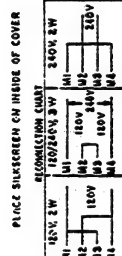
CONTROL - 611C1039

611C1039



REF. NO.	PART NO.	QTY. USED	DESCRIPTION
C1	312A57	1	Capacitor 1.0 MFD.
CR1	305B235	1	Diode, Reverse Current
	305A254	1	Heat Sink
K1	305B383	1	Relay, 2-Step Voltage Reg.
K2	307B253	1	Relay, Stop
K3	307B845	1	Relay, Start Solenoid
R1	304A175	1	Resistor, 1-Ohm, 50 Watt, Adj.
R2	304A344	1	Resistor, 1-Ohm, 25 Watt
R3	304A251	1	Resistor, 30-Ohm, 5 Watt
RT1	304A60	1	Resistor, Hytemco, 1.72-Ohm, 25 Watt
S1	308P154	1	Switch, Start/Stop
S2	308P2	1	Switch, Hand/Elect. Start
⊙ TB1	332A604	1	Block, Terminal
	332A613	1	Strip, Marker
⊙	301B3227	1	Bracket, Control Box Mtg.
	301D3294	1	Control Box
	301B3102	1	Cover
	332-142	1	Terminal
	508-1	3	Grommet
BT1		1	Battery, 12-Volt
C3	312A162	1	Capacitor 0.1 MFD.
*E1		1	Fuel Pump
E2, 3		2	Spark Plug
E4		1	Choke, Thermo Mag.
G1		1	Generator
S3		1	Breaker & Cap Assembly
*S4	309A2	1	Switch, High Air Temp.
*S5	308-97	1	Switch
*S6,	309A10	1	Switch, Low Oil Pressure
T1		1	Ignition Coil (ONAN)
⊙ E5	193A108	1	Sender - Oil Pressure
M1	193A107(Ref)	1	Gauge, Oil Pressure
M2	302A58(Ref)	1	Ammeter

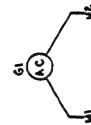
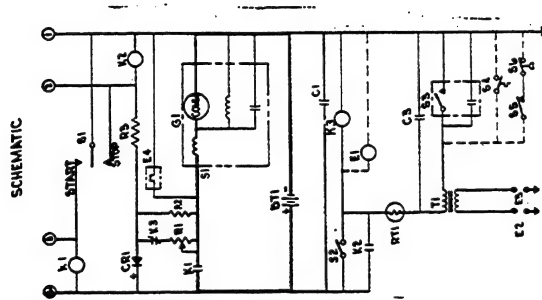
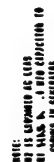
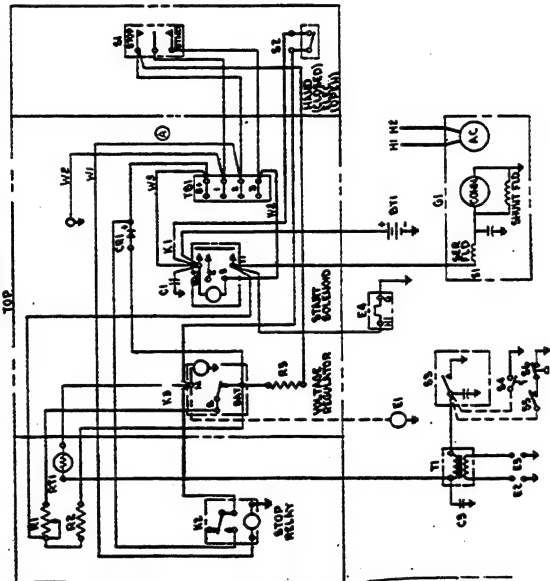
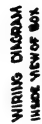
* - When Used.



PLACE SILKSCREEN ON INSIDE OF COVER

[illegible]

01-50 CCK-30/932	WIRING DIAGRAM	611 C 1047
50 CCK-3-0/904N	CONTROL - DEN SET	



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
C1	312A185	1	Capacitor Assembly
	305A494	1	Diode Assembly
CRI	305B235(Ref)	1	Diode, Reverse Current
	305A254(Ref)	1	Heat Sink
K1	307B845	1	Relay, Start Solenoid
	307A1120	1	Relay & Lead Assy-Stop
K2	307B253(Ref)	1	Relay, Stop
K3	305B383	1	Relay, 2-Step Voltage
	304A681	1	Resistor Assembly
R1	304A175(Ref)	1	Resistor, Adj., 1-Ohm, 50 Watt
R2	304A344	1	Resistor, Fixed, 1-Ohm, 25 Watt
	304A680	1	Resistor & Lead Assembly
RT1	304A60(Ref)	1	Resistor, 1.72-Ohm, 25 Watt
	308A294	1	Switch Assy., RMT Start
S1	308P154(Ref)	1	Switch, Start/Stop
R3	304A251(Ref)	1	Resistor, 30-Ohm, 5 Watt
	308A300	1	Switch & Lead Assembly
S2	308P2(Ref)	1	Switch (Hand/ Elect. Start)
TBI	332A537	1	Terminal Block
	332A566	1	Marker Strip
W1	336A2024	1	Lead Assembly 16"
W2	336A1045	2	Lead Assembly 8"
W3	336A2023	1	Lead Assembly 12"
	301B3227	1	Bracket, Control Box Mtg.
	301D3228	1	Control Box
	301B3102	1	Cover
	508-1	3	Grommet
BT1		1	Battery, 12-Volt
C3	312A162	1	Capacitor, 0.1 MFD.
E1		1	Fuel Pump
E2, 3		2	Spark Plug
E4		1	Choke, Electric
G1		1	Generator
S3		1	Breaker & Cap Assembly
S4	309A2	1	Switch, High Air Temp.
S5	308-97	1	Switch
S6	309A10	1	Switch, Low Oil Pressure
TI		1	Ignition Coil (ONAN)

* - When Used.

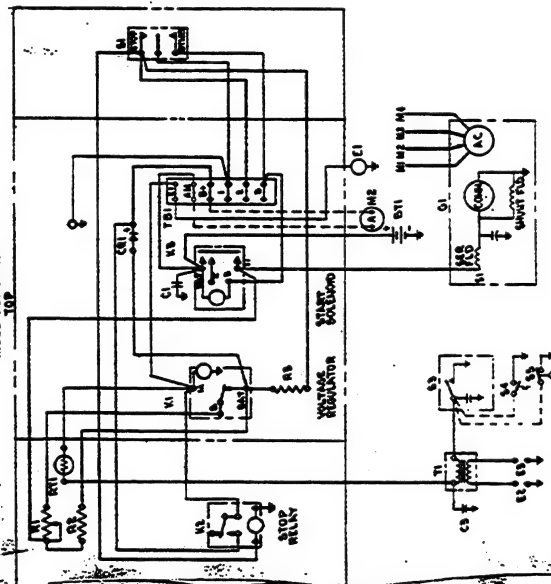
*** - When Used.**

NOTE: ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 07-27-2009 BY 60322 UCBAW

[illegible]

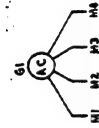
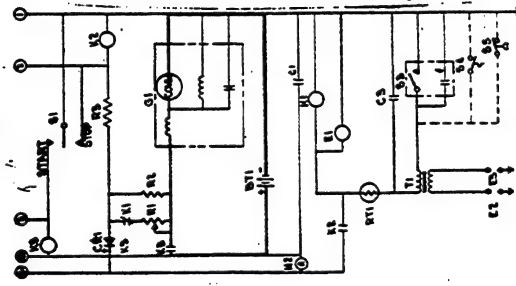
61C1050

WIRING DIAGRAM
INSIDE VIEW OF BOX



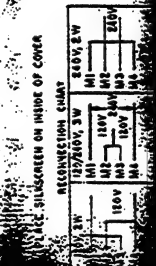
NOTE
ON IS UNWIRED AC LED
STICKER SHOWN IN BOX
GROUND IS GROUNDING

SCHEMATIC



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
C1	312A57	1	Capacitor, 1.0 MFD.
CR1	305B235	1	Diode, Reversible Current
K1	305A254	1	Heat Sink
K2	305B383	1	Relay, 2-Step Voltage Reg.
K3	307B253	1	Relay, Stop
R1	307B845	1	Relay, Start Solenoid
R2	304A175	1	Resistor, 1-Ohm, 50 Watt, Adj.
R3	304A344	1	Resistor, 1-Ohm, 25 Watt
RT1	304A251	1	Resistor, 30-Ohm, 5 Watt
	304A60	1	Resistor, Hitemco, 1.72-Ohm, 25 Watt
SI	308P154	1	Switch, Start/Stop
BT1	332A699	1	Block, Terminal
	332A730	1	Strip, Marker
	301B3227	1	Bracket, Control Box Mtg.
	301D3294	1	Control Box
	301B3102	1	Cover
	332-142	1	Terminal
	508-1	3	Grommet
	517-19	1	Dot-Button
BT1	312A162	1	Battery, 12-Volt
C3		1	Capacitor, 0.1 MFD.
E1		1	Valve, Gas Solenoid
E2, 3		2	Spark Plug
G1		1	Generator
S3		1	Breaker & Cap Assembly
S4	309A2	1	Switch, High Air Temp.
S5	309A10	1	Switch, Low Oil Press.
T1		1	Ignition Coil (ONAN)
M2		1	Ammeter (Furnished by Customer)

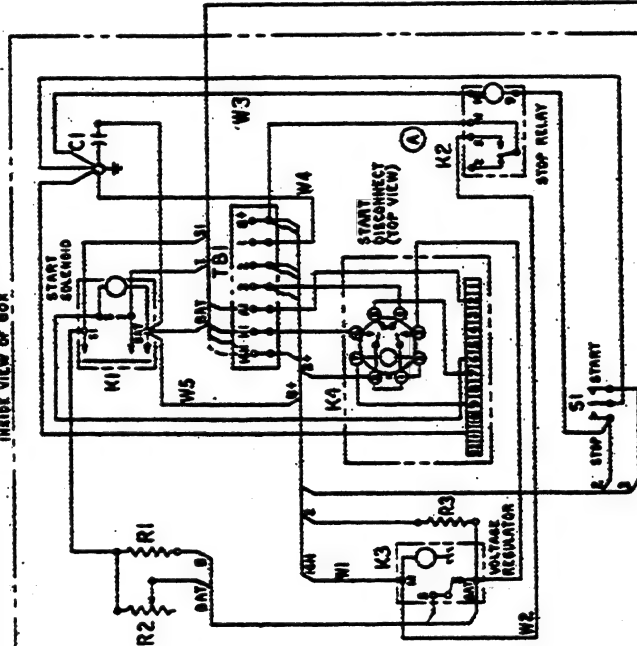
* - When Used.



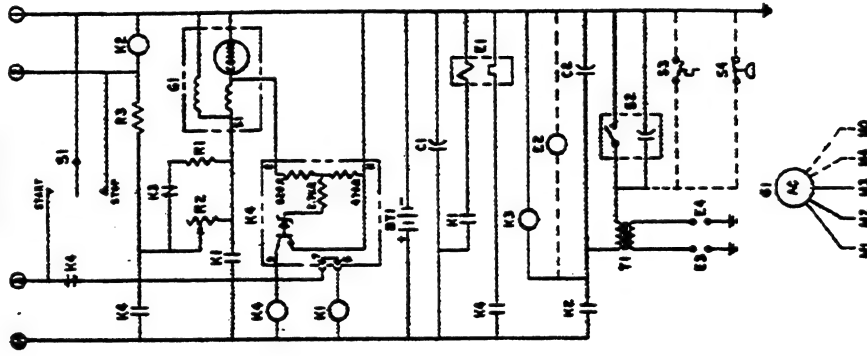
DATE	BY	CHKD	APPD
1-18-70	CR	1-24-70	CR
REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	1-18-70	CR	1-24-70
2	1-18-70	CR	1-24-70
3	1-18-70	CR	1-24-70
4	1-18-70	CR	1-24-70
5	1-18-70	CR	1-24-70
6	1-18-70	CR	1-24-70
7	1-18-70	CR	1-24-70
8	1-18-70	CR	1-24-70
9	1-18-70	CR	1-24-70
10	1-18-70	CR	1-24-70

611C1052

WIRING DIAGRAM
INSIDE VIEW OF BOX



SCHEMATIC



REF. DES.	PART NO.	QTY.	DESCRIPTION
C1	312A105	1	CAPACITOR ASSY, 1.0 MFD
K1	3070R45	1	RELAY-START SOLINOID
K2	307B1052	1	RELAY-STOP
K3	305B383	1	RELAY-2 STEP VOLTAGE (REGULATION)
K4	306B232	1	RELAY ASSY-START DISC
	30701070 (REF)		RELAY-START DISCONNECT
	300A734 (REF)		AMPLIFIER-START DISCONNECT
	304A688	1	RESISTOR & LEAD ASSY
R1	353A0 (REF)	1	RESISTOR, 60, 50 W
	304A689	1	RESISTOR & LEAD ASSY
R2	304A685	1	RESISTOR, 60, 100 W 100
R3	304A251 (REF)	1	RESISTOR & LEAD ASSY
	308A200	1	RESISTOR, 300, 5 W
S1	308T154 (REF)	1	SWITCH ASSY
	308T154 (REF)	1	SWITCH-START, STOP
BT1	332A745	1	TERMINAL BLOCK
	332A1321	1	HAIRPIN STRIP
R1	330A2032	1	LEAD ASSY
R2	330A2030	1	LEAD ASSY
R3	330A2031	1	LEAD ASSY
R4	330A1431	1	LEAD ASSY
R5	330A2032	1	LEAD ASSY
	301D351	1	CONTROL BOX
	301B349	1	COVER-CONTROL BOX
	331-88	2	CHROME
	50A-4	1	CHROME
	90A1070	1	SILKSCREEN-RECONNECTION
	99A268	1	SILKSCREEN-START, STOP

PARTS LIST ENG GEN (REF)

REF. DES.	PART NO.	QTY.	DESCRIPTION
BT1	332A745	1	BATTERY, 12V
C2	312A105	1	CAPACITOR 0.1 MFD
E1	312A105	1	CHOK-TERMO MAG
E2	312A105	1	PUMP-FUEL
E3, 4	312A105	2	SPARK PLUG
G1	312A105	1	GENERATOR
S2	312A105	1	BREAKER & CAP ASSY
S3	312A105	1	SWITCH-HIGH AIR TEMP
S4	312A105	1	SWITCH-LOW OIL PRESS
T1	312A105	1	COIL-IGNITION
	332B805 (REF)	1	SOCKET ASSY-START DISC
	301A3306 (REF)	1	SPRING

*WHEN USED

(D) *

(E)

ITEM	QTY	DESCRIPTION	REF. DES.
1	1	ITEM 300A734 (REF) 2	300A734
2	1	ITEM 300A734 (REF) 2	300A734
3	1	ITEM 300A734 (REF) 2	300A734
4	1	ITEM 300A734 (REF) 2	300A734
5	1	ITEM 300A734 (REF) 2	300A734
6	1	ITEM 300A734 (REF) 2	300A734
7	1	ITEM 300A734 (REF) 2	300A734
8	1	ITEM 300A734 (REF) 2	300A734
9	1	ITEM 300A734 (REF) 2	300A734
10	1	ITEM 300A734 (REF) 2	300A734

ITEM	QTY	DESCRIPTION	REF. DES.
1	1	ITEM 300A734 (REF) 2	300A734
2	1	ITEM 300A734 (REF) 2	300A734
3	1	ITEM 300A734 (REF) 2	300A734
4	1	ITEM 300A734 (REF) 2	300A734
5	1	ITEM 300A734 (REF) 2	300A734
6	1	ITEM 300A734 (REF) 2	300A734
7	1	ITEM 300A734 (REF) 2	300A734
8	1	ITEM 300A734 (REF) 2	300A734
9	1	ITEM 300A734 (REF) 2	300A734
10	1	ITEM 300A734 (REF) 2	300A734

ITEM	QTY	DESCRIPTION	REF. DES.
1	1	ITEM 300A734 (REF) 2	300A734
2	1	ITEM 300A734 (REF) 2	300A734
3	1	ITEM 300A734 (REF) 2	300A734
4	1	ITEM 300A734 (REF) 2	300A734
5	1	ITEM 300A734 (REF) 2	300A734
6	1	ITEM 300A734 (REF) 2	300A734
7	1	ITEM 300A734 (REF) 2	300A734
8	1	ITEM 300A734 (REF) 2	300A734
9	1	ITEM 300A734 (REF) 2	300A734
10	1	ITEM 300A734 (REF) 2	300A734

ITEM	QTY	DESCRIPTION	REF. DES.
1	1	ITEM 300A734 (REF) 2	300A734
2	1	ITEM 300A734 (REF) 2	300A734
3	1	ITEM 300A734 (REF) 2	300A734
4	1	ITEM 300A734 (REF) 2	300A734
5	1	ITEM 300A734 (REF) 2	300A734
6	1	ITEM 300A734 (REF) 2	300A734
7	1	ITEM 300A734 (REF) 2	300A734
8	1	ITEM 300A734 (REF) 2	300A734
9	1	ITEM 300A734 (REF) 2	300A734
10	1	ITEM 300A734 (REF) 2	300A734

ITEM	QTY	DESCRIPTION	REF. DES.
1	1	ITEM 300A734 (REF) 2	300A734
2	1	ITEM 300A734 (REF) 2	300A734
3	1	ITEM 300A734 (REF) 2	300A734
4	1	ITEM 300A734 (REF) 2	300A734
5	1	ITEM 300A734 (REF) 2	300A734
6	1	ITEM 300A734 (REF) 2	300A734
7	1	ITEM 300A734 (REF) 2	300A734
8	1	ITEM 300A734 (REF) 2	300A734
9	1	ITEM 300A734 (REF) 2	300A734
10	1	ITEM 300A734 (REF) 2	300A734

ITEM	QTY	DESCRIPTION	REF. DES.
1	1	ITEM 300A734 (REF) 2	300A734
2	1	ITEM 300A734 (REF) 2	300A734
3	1	ITEM 300A734 (REF) 2	300A734
4	1	ITEM 300A734 (REF) 2	300A734
5	1	ITEM 300A734 (REF) 2	300A734
6	1	ITEM 300A734 (REF) 2	300A734
7	1	ITEM 300A734 (REF) 2	300A734
8	1	ITEM 300A734 (REF) 2	300A734
9	1	ITEM 300A734 (REF) 2	300A734
10	1	ITEM 300A734 (REF) 2	300A734

ITEM	QTY	DESCRIPTION	REF. DES.
1	1	ITEM 300A734 (REF) 2	300A734
2	1	ITEM 300A734 (REF) 2	300A734
3	1	ITEM 300A734 (REF) 2	300A734
4	1	ITEM 300A734 (REF) 2	300A734
5	1	ITEM 300A734 (REF) 2	300A734
6	1	ITEM 300A734 (REF) 2	300A734
7	1	ITEM 300A734 (REF) 2	300A734
8	1	ITEM 300A734 (REF) 2	300A734
9	1	ITEM 300A734 (REF) 2	300A734
10	1	ITEM 300A734 (REF) 2	300A734

ITEM	QTY	DESCRIPTION	REF. DES.
1	1	ITEM 300A734 (REF) 2	300A734
2	1	ITEM 300A734 (REF) 2	300A734
3	1	ITEM 300A734 (REF) 2	300A734
4	1	ITEM 300A734 (REF) 2	300A734
5	1	ITEM 300A734 (REF) 2	300A734
6	1	ITEM 300A734 (REF) 2	300A734
7	1	ITEM 300A734 (REF) 2	300A734
8	1	ITEM 300A734 (REF) 2	300A734
9	1	ITEM 300A734 (REF) 2	300A734
10	1	ITEM 300A734 (REF) 2	300A734

ITEM	QTY	DESCRIPTION	REF. DES.
1	1	ITEM 300A734 (REF) 2	300A734
2	1	ITEM 300A734 (REF) 2	300A734
3	1	ITEM 300A734 (REF) 2	300A734
4	1	ITEM 300A734 (REF) 2	300A734
5	1	ITEM 300A734 (REF) 2	300A734
6	1	ITEM 300A734 (REF) 2	300A734
7	1	ITEM 300A734 (REF) 2	300A734
8	1	ITEM 300A734 (REF) 2	300A734
9	1	ITEM 300A734 (REF) 2	300A734
10	1	ITEM 300A734 (REF) 2	300A734

ITEM	QTY	DESCRIPTION	REF. DES.
1	1	ITEM 300A734 (REF) 2	300A734
2	1	ITEM 300A734 (REF) 2	300A734
3	1	ITEM 300A734 (REF) 2	300A734
4	1	ITEM 300A734 (REF) 2	300A734
5	1	ITEM 300A734 (REF) 2	300A734
6	1	ITEM 300A734 (REF) 2	300A734
7	1	ITEM 300A734 (REF) 2	300A734
8	1	ITEM 300A734 (REF) 2	300A734
9	1	ITEM 300A734 (REF) 2	300A734
10	1	ITEM 300A734 (REF) 2	300A734

ITEM	QTY	DESCRIPTION	REF. DES.
1	1	ITEM 300A734 (REF) 2	300A734
2	1	ITEM 300A734 (REF) 2	300A734
3	1	ITEM 300A734 (REF) 2	300A734
4	1	ITEM 300A734 (REF) 2	300A734
5	1	ITEM 300A734 (REF) 2	300A734
6	1	ITEM 300A734 (REF) 2	300A734
7	1	ITEM 300A734 (REF) 2	300A734
8	1	ITEM 300A734 (REF) 2	300A734
9	1	ITEM 300A734 (REF) 2	300A734
10	1	ITEM 300A734 (REF) 2	300A734

ITEM	QTY	DESCRIPTION	REF. DES.
1	1	ITEM 300A734 (REF) 2	300A734
2	1	ITEM 300A734 (REF) 2	300A734
3	1	ITEM 300A734 (REF) 2	300A734
4	1	ITEM 300A734 (REF) 2	300A734
5	1	ITEM 300A734 (REF) 2	300A734
6	1	ITEM 300A734 (REF) 2	300A734
7	1	ITEM 300A734 (REF) 2	300A734
8	1	ITEM 300A734 (REF) 2	300A734
9	1	ITEM 300A734 (REF) 2	300A734
10	1	ITEM 300A734 (REF) 2	300A734

ITEM	QTY	DESCRIPTION	REF. DES.
1	1	ITEM 300A734 (REF) 2	300A734
2	1	ITEM 300A734 (REF) 2	300A734
3	1	ITEM 300A734 (REF) 2	300A734
4	1	ITEM 300A734 (REF) 2	300A734
5	1	ITEM 300A734 (REF) 2	300A734
6	1	ITEM 300A734 (REF) 2	300A734
7	1	ITEM 300A734 (REF) 2	300A734
8	1	ITEM 300A734 (REF) 2	300A734
9	1	ITEM 300A734 (REF) 2	300A734
10	1	ITEM 300A734 (REF) 2	300A734

ITEM	QTY	DESCRIPTION	REF. DES.
1	1	ITEM 300A734 (REF) 2	300A734
2	1	ITEM 300A734 (REF) 2	300A734
3	1	ITEM 300A734 (REF) 2	300A734
4	1	ITEM 300A734 (REF) 2	300A734
5	1	ITEM 300A734 (REF) 2	300A734
6	1	ITEM 300A734 (REF) 2	300A734
7	1	ITEM 300A734 (REF) 2	300A734
8	1	ITEM 300A734 (REF) 2	300A734
9	1	ITEM 300A734 (REF) 2	300A734
10	1	ITEM 300A734 (REF) 2	300A734

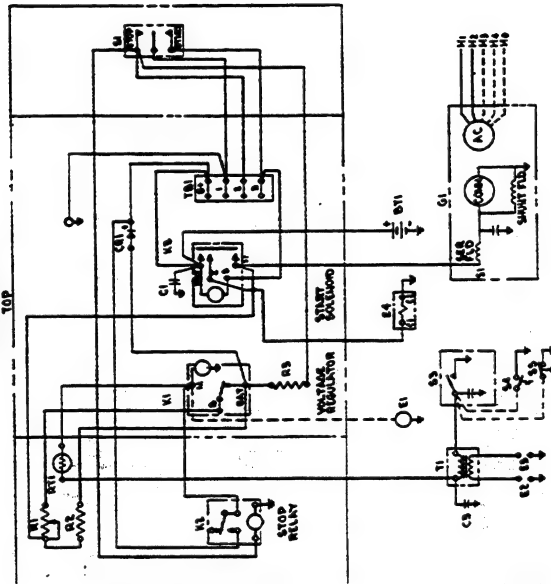
ITEM	QTY	DESCRIPTION	REF. DES.
1	1	ITEM 300A734 (REF) 2	300A734
2	1	ITEM 300A734 (REF) 2	300A734
3	1	ITEM 300A734 (REF) 2	300A734
4	1	ITEM 300A734 (REF) 2	300A734
5	1	ITEM 300A734 (REF) 2	300A734
6	1	ITEM 300A734 (REF) 2	300A734
7	1	ITEM 300A734 (REF) 2	300A734
8	1	ITEM 300A734 (REF) 2	300A734
9	1	ITEM 300A734 (REF) 2	300A734
10	1	ITEM 300A734 (REF) 2	300A734

ITEM	QTY	DESCRIPTION	REF. DES.
1	1	ITEM 300A734 (REF) 2	300A734
2	1	ITEM 300A734 (REF) 2	300A734
3	1	ITEM 300A734 (REF) 2	300A734
4	1	ITEM 300A734 (REF) 2	300A734
5	1	ITEM 300A734 (REF) 2	300A734
6	1	ITEM 300A734 (REF) 2	300A734
7	1	ITEM 300A734 (REF) 2	300A734
8	1	ITEM 300A734 (REF) 2	300A734
9	1	ITEM 300A734 (REF) 2	300A734
10	1	ITEM 300A734 (REF) 2	300A734

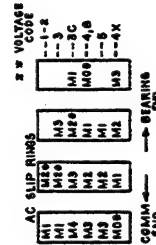
ITEM	QTY	DESCRIPTION	REF. DES.
1	1	ITEM 300A734 (REF) 2	300A734
2	1	ITEM 300A734 (REF) 2	300A734
3	1	ITEM 300A734 (REF) 2	300A734
4	1	ITEM 300A734 (REF) 2	300A73

611C1054

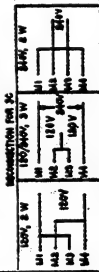
WIRING DIAGRAM
INSIDE VIEW OF BODY
TOP



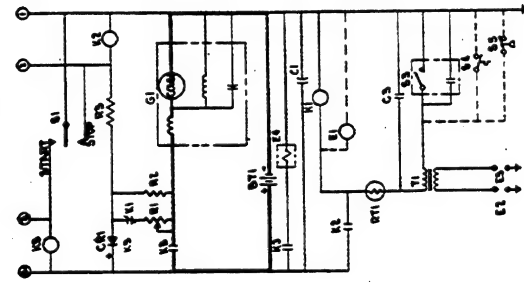
NOTE: GROUND IS USED
OTHERS HAVE A BIRD COLLECTION TO
SHOWN IN SCHEMATIC.



PLACE TERMINAL ON INSIDE OF COVER



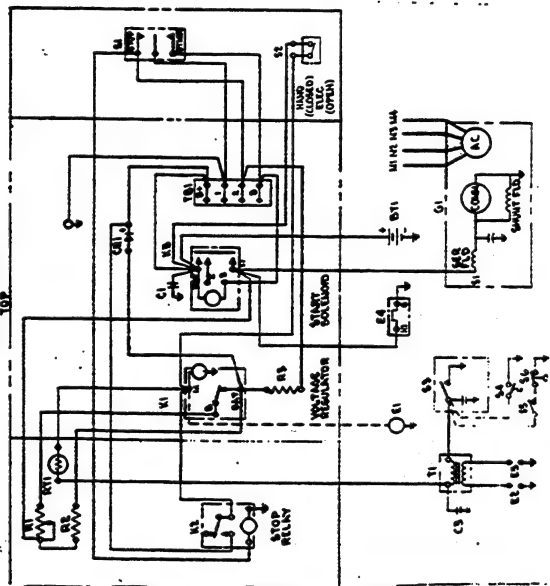
SCHEMATIC



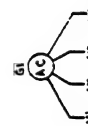
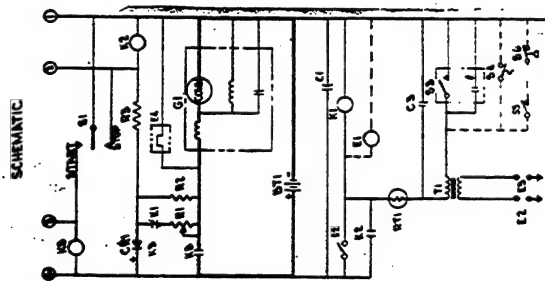
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
C1	312A57	1	Capacitor 1.0 MFD.
CR1	305B235	1	Diode, Reverse Current
	305A254	1	Heat Sink
K1	305B383	1	Relay, 2-Step Voltage Reg.
K2	307B253	1	Relay, Stop
K3	307B845	1	Relay, Start Solenoid
R1	304A175	1	Resistor, 1-Ohm, 50 Watt, Adj.
R2	304A344	1	Resistor, 1-Ohm, 25 Watt
R3	304A251	1	Resistor, 30-Ohm, 5 Watt
RT1	304A60	1	Resistor, Hytemco, 1.72-Ohm, 25 Watt
SI	308P154	1	Switch, Start/Stop
TBI	332A537	1	Block, Terminal
	332A566	1	Strip, Marker
	301B3227	1	Bracket, Control Box Mtg.
	301D3228	1	Control Box
	301B3102	1	Cover
	508-1	3	Grommet
	517-19	1	Dot - Button
BT1		1	Battery, 12-Volt
C3	312A162	1	Capacitor 0.1 MFD.
*E1		1	Fuel Pump
E2, 3		2	Spark Plug
E4		1	Choke, Electric
G1		1	Generator
S3		1	Breaker & Cap Assembly
*S4	309A2	1	Switch, High Air Temp.
*S5	309A10	1	Switch, Low Oil Pressure
T1		1	Ignition Coil (ONAN)

* - When Used.

611C1054 100% TESTED 100% INSULATED 100% PROTECTED 100% SECURED	
100% TESTED 100% INSULATED 100% PROTECTED 100% SECURED	100% TESTED 100% INSULATED 100% PROTECTED 100% SECURED
100% TESTED 100% INSULATED 100% PROTECTED 100% SECURED	100% TESTED 100% INSULATED 100% PROTECTED 100% SECURED
100% TESTED 100% INSULATED 100% PROTECTED 100% SECURED	100% TESTED 100% INSULATED 100% PROTECTED 100% SECURED



03 00137473 010 1- JSTP SCSMLO
0733 37 01000479 11 10
7104



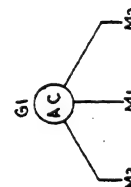
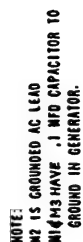
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
C1	312A57	1	Capacitor 1.0 MFD.
CR1	305B235	1	Diode, Reverse Current
	305A254	1	Heat Sink
K1	305B383	1	Relay, 2-Step Voltage Reg.
K2	307B253	1	Relay, Stop
K3	307B845	1	Relay, Start Solenoid
R1	304A175	1	Resistor, 1-Ohm, 50Watt, Adj.
R2	304A344	1	Resistor, 1-Ohm, 25Watt
R3	304A251	1	Resistor, 30-Ohm, 5Watt
RT1	304A60	1	Resistor, Hytemco, 1.72-Ohm, 25Watt
S1	308P154	1	Switch, Start/Stop
S2	308P2	1	Switch, Hand/Elect. Start
TB1	332A537	1	Block, Terminal
	332A566	1	Strip, Marker
	301B3227	1	Bracket, Control Box Mtg.
	301D3228	1	Control Box
	301B3102	1	Cover
	508-1	3	Grommet
BT1		1	Battery, 12-Volt
C3	312A162	1	Capacitor 0.1 MFD.
E1		1	Fuel Pump
E2, 3		2	Spark Plug
E4		1	Choke, Electric
G1		1	Generator
S3		1	Breaker & Cap Assembly
S4	309A2	1	Switch, High Air Temp.
S5	308-97	1	Switch
S6	309A10	1	Switch, Low Oil Pressure
T1		1	Ignition Coil (QANAN)

* - When Used.

EXACT SILVERSMITH ON NATURE OF COIN

1970-1971
 1971-1972
 1972-1973
 1973-1974
 1974-1975
 1975-1976
 1976-1977
 1977-1978
 1978-1979
 1979-1980
 1980-1981
 1981-1982
 1982-1983
 1983-1984
 1984-1985
 1985-1986
 1986-1987
 1987-1988
 1988-1989
 1989-1990
 1990-1991
 1991-1992
 1992-1993
 1993-1994
 1994-1995
 1995-1996
 1996-1997
 1997-1998
 1998-1999
 1999-2000
 2000-2001
 2001-2002
 2002-2003
 2003-2004
 2004-2005
 2005-2006
 2006-2007
 2007-2008
 2008-2009
 2009-2010
 2010-2011
 2011-2012
 2012-2013
 2013-2014
 2014-2015
 2015-2016
 2016-2017
 2017-2018
 2018-2019
 2019-2020
 2020-2021
 2021-2022
 2022-2023
 2023-2024
 2024-2025
 2025-2026
 2026-2027
 2027-2028
 2028-2029
 2029-2030
 2030-2031
 2031-2032
 2032-2033
 2033-2034
 2034-2035
 2035-2036
 2036-2037
 2037-2038
 2038-2039
 2039-2040
 2040-2041
 2041-2042
 2042-2043
 2043-2044
 2044-2045
 2045-2046
 2046-2047
 2047-2048
 2048-2049
 2049-2050
 2050-2051
 2051-2052
 2052-2053
 2053-2054
 2054-2055
 2055-2056
 2056-2057
 2057-2058
 2058-2059
 2059-2060
 2060-2061
 2061-2062
 2062-2063
 2063-2064
 2064-2065
 2065-2066
 2066-2067
 2067-2068
 2068-2069
 2069-2070
 2070-2071
 2071-2072
 2072-2073
 2073-2074
 2074-2075
 2075-2076
 2076-2077
 2077-2078
 2078-2079
 2079-2080
 2080-2081
 2081-2082
 2082-2083
 2083-2084
 2084-2085
 2085-2086
 2086-2087
 2087-2088
 2088-2089
 2089-2090
 2090-2091
 2091-2092
 2092-2093
 2093-2094
 2094-2095
 2095-2096
 2096-2097
 2097-2098
 2098-2099
 2099-2100
 2100-2101
 2101-2102
 2102-2103
 2103-2104
 2104-2105
 2105-2106
 2106-2107
 2107-2108
 2108-2109
 2109-2110
 2110-2111
 2111-2112
 2112-2113
 2113-2114
 2114-2115
 2115-2116
 2116-2117
 2117-2118
 2118-2119
 2119-2120
 2120-2121
 2121-2122
 2122-2123
 2123-2124
 2124-2125
 2125-2126
 2126-2127
 2127-2128
 2128-2129
 2129-2130
 2130-2131
 2131-2132
 2132-2133
 2133-2134
 2134-2135
 2135-2136
 2136-2137
 2137-2138
 2138-2139
 2139-2140
 2140-2141
 2141-2142
 2142-2143
 2143-2144
 2144-2145
 2145-2146
 2146-2147
 2147-2148
 2148-2149
 2149-2150
 2150-2151
 2151-2152
 2152-2153
 2153-2154
 2154-2155
 2155-2156
 2156-2157
 2157-2158
 2158-2159
 2159-2160
 2160-2161
 2161-2162
 2162-2163
 2163-2164
 2164-2165
 2165-2166
 2166-2167
 2167-2168
 2168-2169
 2169-2170
 2170-2171
 2171-2172
 2172-2173
 2173-2174
 2174-2175
 2175-2176
 2176-2177
 2177-2178
 2178-2179
 2179-2180
 2180-2181
 2181-2182
 2182-2183
 2183-2184
 2184-2185
 2185-2186
 2186-2187
 2187-2188
 2188-2189
 2189-2190
 2190-2191
 2191-2192
 2192-2193
 2193-2194
 2194-2195
 2195-2196
 2196-2197
 2197-2198
 2198-2199
 2199-2200
 2200-2201
 2201-2202
 2202-2203
 2203-2204
 2204-2205
 2205-2206
 2206-2207
 2207-2208
 2208-2209
 2209-2210
 2210-2211
 2211-2212
 2212-2213
 2213-2214
 2214-2215
 2215-2216
 2216-2217
 2217-2218
 2218-2219
 2219-2220
 2220-2221
 2221-2222
 2222-2223
 2223-2224
 2224-2225
 2225-2226
 2226-2227
 2227-2228
 2228-2229
 2229-2230
 2230-2231
 2231-2232
 2232-2233
 2233-2234
 2234-2235
 2235-2236
 2236-2237
 2237-2238
 2238-2239
 2239-2240
 2240-2241
 2241-2242
 2242-2243
 2243-2244
 2244-2245
 2245-2246
 2246-2247
 2247-2248
 2248-2249
 2249-2250
 2250-2251
 2251-2252
 2252-2253
 2253-2254
 2254-2255
 2255-2256
 2256-2257
 2257-2258
 2258-2259
 2259-2260
 2260-2261
 2261-2262
 226

[illegible]



↑ WHEN USED

↑ WHEN USED

ALL THE	01	40CCK-3R/938IN 50CCK-3R/938IN	MOORE 120	40CCK-3R/6000P 50CCK-3R/6000P
	02			

NOTE: UNLESS OTHERWISE NOTED, ALL COMPONENTS ARE SHOWN IN THE DE-ENERGIZED POSITION

SCHEMATIC



causal hero

PLACE SILKSCREEN ON INSIDE OF COVER

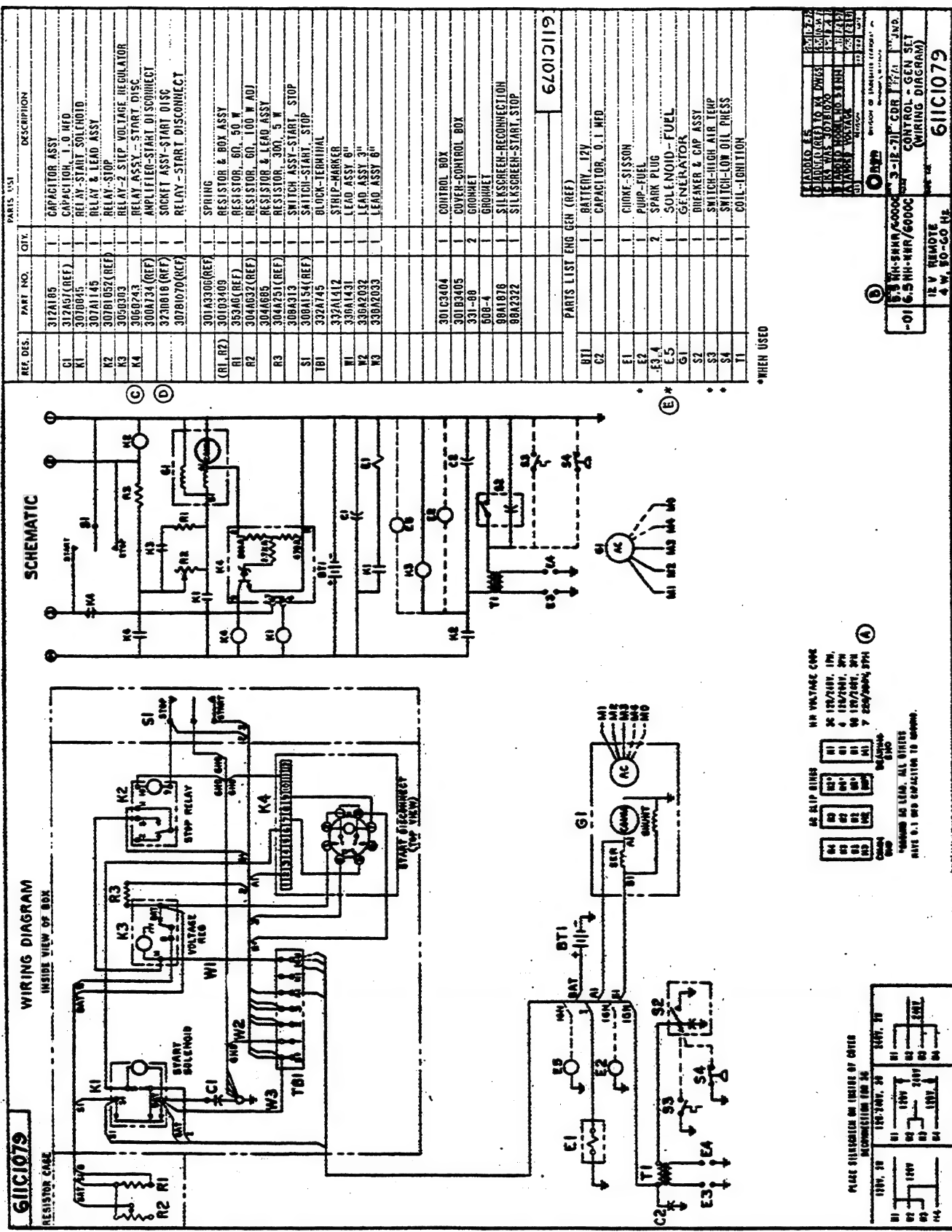
24 VOLTAGE CODE

W4	W3	W2°
W3	W2	W0°
W3	W2	W0°

• GROUND AC LEAD, ALL OTHERS HAVE A 1 MFD CAPACITOR TO GROUND.

NOTE:
1. CONNECT RUNNING TIME METER
TO LEADS M1 & M2 FOR A 3CR GEN, &
TO LEADS M1 & M0 FOR A 4 OR 5D GEN

01	NH-*** / 0250A	12V REMOTE	61C1076	HANTSVILLE
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				
61				
62				
63				
64				
65				
66				
67				
68				
69				
70				
71				
72				
73				
74				
75				
76				
77				
78				
79				
80				
81				
82				
83				
84				
85				
86				
87				
88				
89				
90				
91				
92				
93				
94				
95				
96				
97				
98				
99				
00				

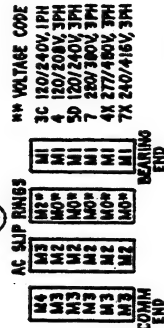


REF. DES.	PART NO.	QTY.	DESCRIPTION
C1	312A105	1	CAPACITOR ASSY
K1	312A57(REF)	1	CAPACITOR, 1.0 MFD
K2	307B045	1	RELAY-START SOLENOID
K3	307A145	1	RELAY & LEAD ASSY
K4	307B1052(REF)	1	RELAY-STOP
K5	305B093	1	RELAY-2 STOP VOLTAGE REGULATOR
K6	306B743	1	RELAY ASSY-START DISC
K7	323B016(REF)	1	AMPLIFIER-START DISCONNECT
K8	307B01070(REF)	1	SOCKET ASSY-START DISC
K9	307B01070(REF)	1	RELAY-START DISCONNECT
K10	301A3306(REF)	1	SPRING
K11	301B3409	1	RESISTOR & BOX ASSY
K12	353A0(REF)	1	RESISTOR, 60 W
K13	304A032(REF)	1	RESISTOR, 100 W ADJ
K14	304A085	1	RESISTOR & LEAD ASSY
K15	304A751(REF)	1	RESISTOR, 300 W
K16	308A313	1	SWITCH ASSY-START, STOP
K17	308A154(REF)	1	SWITCH-START, STOP
K18	322A745	1	BUCK-TERMINAL
K19	322A1412	1	STRIP-MARKER
K20	336A1431	1	LEAD ASSY 8"
K21	336A2032	1	LEAD ASSY 3"
K22	336A2033	1	LEAD ASSY 6"
K23	301C3404	1	CONTROL BOX
K24	301B3405	1	COVER-CONTROL BOX
K25	331-00	2	GROUND
K26	508-4	1	GROUND
K27	98A1876	1	SILKSCREEN-RECONNECTION
K28	98A2322	1	SILKSCREEN-START, STOP
K29	611C1079	1	611C1079
K30	BT1	1	BATTERY, 12V
K31	C2	1	CAPACITOR, 0.1 MFD
K32	E1	1	CLUNK-STOP
K33	E2	1	PUMP-FUEL
K34	E3	1	SPARK PLUG
K35	E4	1	SOLENOID-FUEL
K36	E5	1	GENERATOR
K37	G1	1	BREAKER & CAP ASSY
K38	S2	1	SWITCH-HIGH AIR TEMP
K39	S3	1	SWITCH-LOW OIL PRESS
K40	S4	1	COIL-IGNITION
K41	T1	1	WHEN USED

REF. DES.	PART NO.	QTY.	DESCRIPTION
C1	312A105	1	CAPACITOR ASSY
K1	312A57(REF)	1	CAPACITOR, 1.0 MFD
K2	307B045	1	RELAY-START SOLENOID
K3	307A145	1	RELAY & LEAD ASSY
K4	307B1052(REF)	1	RELAY-STOP
K5	305B093	1	RELAY-2 STOP VOLTAGE REGULATOR
K6	306B743	1	RELAY ASSY-START DISC
K7	323B016(REF)	1	AMPLIFIER-START DISCONNECT
K8	307B01070(REF)	1	SOCKET ASSY-START DISC
K9	307B01070(REF)	1	RELAY-START DISCONNECT
K10	301A3306(REF)	1	SPRING
K11	301B3409	1	RESISTOR & BOX ASSY
K12	353A0(REF)	1	RESISTOR, 60 W
K13	304A032(REF)	1	RESISTOR, 100 W ADJ
K14	304A085	1	RESISTOR & LEAD ASSY
K15	304A751(REF)	1	RESISTOR, 300 W
K16	308A313	1	SWITCH ASSY-START, STOP
K17	308A154(REF)	1	SWITCH-START, STOP
K18	322A745	1	BUCK-TERMINAL
K19	322A1412	1	STRIP-MARKER
K20	336A1431	1	LEAD ASSY 8"
K21	336A2032	1	LEAD ASSY 3"
K22	336A2033	1	LEAD ASSY 6"
K23	301C3404	1	CONTROL BOX
K24	301B3405	1	COVER-CONTROL BOX
K25	331-00	2	GROUND
K26	508-4	1	GROUND
K27	98A1876	1	SILKSCREEN-RECONNECTION
K28	98A2322	1	SILKSCREEN-START, STOP
K29	611C1079	1	611C1079
K30	BT1	1	BATTERY, 12V
K31	C2	1	CAPACITOR, 0.1 MFD
K32	E1	1	CLUNK-STOP
K33	E2	1	PUMP-FUEL
K34	E3	1	SPARK PLUG
K35	E4	1	SOLENOID-FUEL
K36	E5	1	GENERATOR
K37	G1	1	BREAKER & CAP ASSY
K38	S2	1	SWITCH-HIGH AIR TEMP
K39	S3	1	SWITCH-LOW OIL PRESS
K40	S4	1	COIL-IGNITION
K41	T1	1	WHEN USED

REF. DES.	PART NO.	QTY.	DESCRIPTION
C1	312A105	1	CAPACITOR ASSY
K1	312A57(REF)	1	CAPACITOR, 1.0 MFD
K2	307B045	1	RELAY-START SOLENOID
K3	307A145	1	RELAY & LEAD ASSY
K4	307B1052(REF)	1	RELAY-STOP
K5	305B093	1	RELAY-2 STOP VOLTAGE REGULATOR
K6	306B743	1	RELAY ASSY-START DISC
K7	323B016(REF)	1	AMPLIFIER-START DISCONNECT
K8	307B01070(REF)	1	SOCKET ASSY-START DISC
K9	307B01070(REF)	1	RELAY-START DISCONNECT
K10	301A3306(REF)	1	SPRING
K11	301B3409	1	RESISTOR & BOX ASSY
K12	353A0(REF)	1	RESISTOR, 60 W
K13	304A032(REF)	1	RESISTOR, 100 W ADJ
K14	304A085	1	RESISTOR & LEAD ASSY
K15	304A751(REF)	1	RESISTOR, 300 W
K16	308A313	1	SWITCH ASSY-START, STOP
K17	308A154(REF)	1	SWITCH-START, STOP
K18	322A745	1	BUCK-TERMINAL
K19	322A1412	1	STRIP-MARKER
K20	336A1431	1	LEAD ASSY 8"
K21	336A2032	1	LEAD ASSY 3"
K22	336A2033	1	LEAD ASSY 6"
K23	301C3404	1	CONTROL BOX
K24	301B3405	1	COVER-CONTROL BOX
K25	331-00	2	GROUND
K26	508-4	1	GROUND
K27	98A1876	1	SILKSCREEN-RECONNECTION
K28	98A2322	1	SILKSCREEN-START, STOP
K29	611C1079	1	611C1079
K30	BT1	1	BATTERY, 12V
K31	C2	1	CAPACITOR, 0.1 MFD
K32	E1	1	CLUNK-STOP
K33	E2	1	PUMP-FUEL
K34	E3	1	SPARK PLUG
K35	E4	1	SOLENOID-FUEL
K36	E5	1	GENERATOR
K37	G1	1	BREAKER & CAP ASSY
K38	S2	1	SWITCH-HIGH AIR TEMP
K39	S3	1	SWITCH-LOW OIL PRESS
K40	S4	1	COIL-IGNITION
K41	T1	1	WHEN USED

WIRING DIAGRAM



DASH NO	CHOKE	MODEL	WIRING HARNESS	CONTROL ASSY
-01	SISSON CHOKE	CKK.NH	39BD840	300D1000
-02	QVAN CHOKE	CKK	39BD691	300D1000
-03	NO CHOKE	GAS CARB	39BD0774	300D1108
-04	NO CHOKE	HATKO GAS	39BD0775	300D1108
-05	SISSON CHOKE	HATKO	39BD0776	300D1000

[illegible]

B ADDED AC SUPP RING CHART - JUNE 19 1965
Z ADDED AT
SUPERSEDES DWG SAME NO DATED 2-15-73
DIVISION OF BUSINESS OPERATIONS

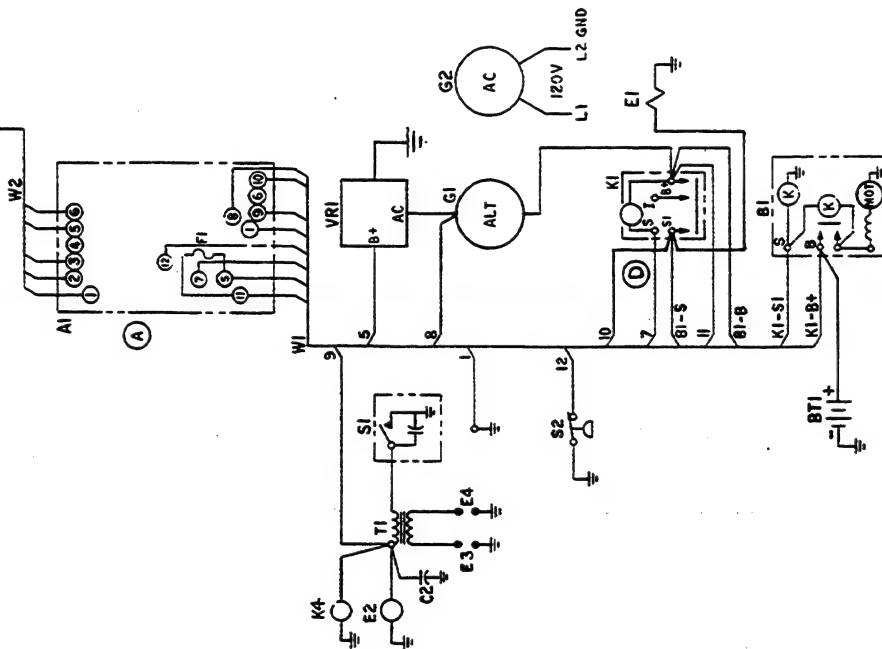
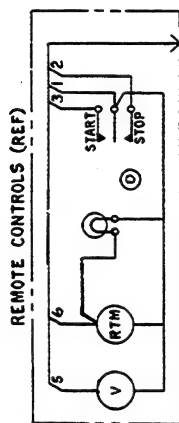
61C1086
 WIRING DIAGRAM
 CONTROL - GEN SET
 2-12-75
 DIVISION OF INDUSTRIAL CORPORATION
 61C1086

5.9NH - WNR/1200DD	5.9NH - WNR/1200DD
3.5 542CCK - WNR/1200OR	4.8 5CCK - WNR/1200OR
120/240V, 4W., 1PH 50Hz	120/240V, 4W., 1PH 60Hz

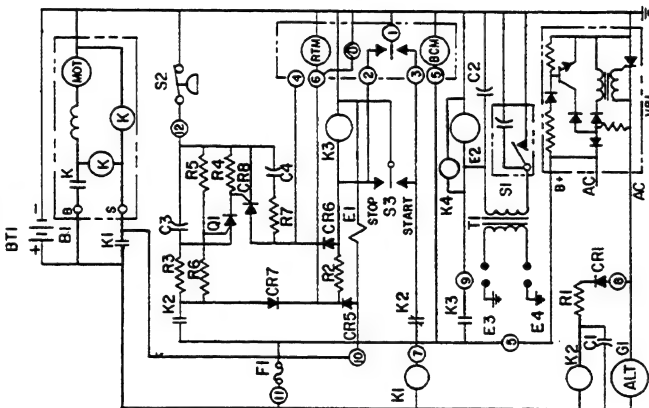
5.5NH - WWR/12000D
3.5642CCK - WWR/12000R
120/240V., 1PH
4W., 50HZ

611C1094

WIRING DIAGRAM



SCHEMATIC



NOTE:
1. MIN START DISCONNECT: 675 RPM.

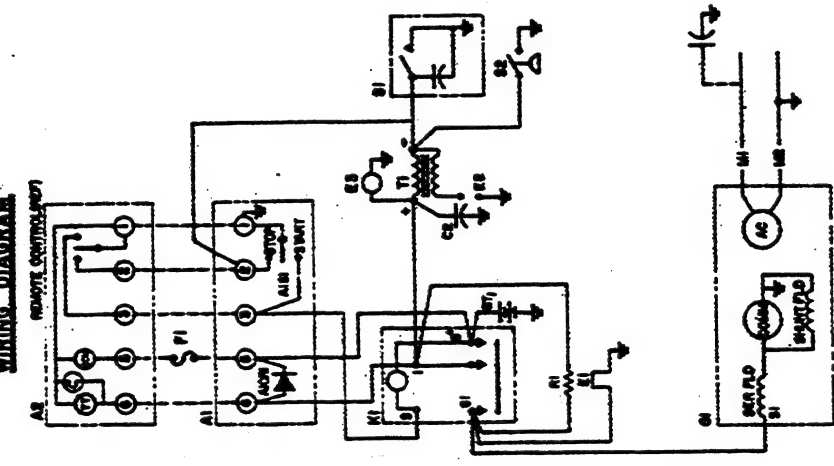
REF. DES.	PART NO.	QTY.	PARTS LIST	DESCRIPTION
	300C845	1		CONTROL ASSY-GEN SET
A1		1		CONTROL-HOT MORE
B1		1		STARTER-SOLENOID SHIFT
B11		1		BATTERY-12 VOLT
C2		1		CAPACITOR
E1		1		CHOKE
E2		1		FUEL PUMP
E3.4		2		SPARK PLUG
G1		1		ALTERNATOR
G2		1		GENERATOR
H1		1		SOLENOID-START
I1		1		BREAKER & CIP ASSY
S1		1		SWITCH-LOW OIL PRESS
S2		1		SOLENOID - FUEL
V1		1		COIL-IGNITION
VRI		1		VOLTAGE REGULATOR
W1		1		WIRING HARNESS-GEN SET
W2		1		WIRING HARNESS-REMOTE

[illegible]

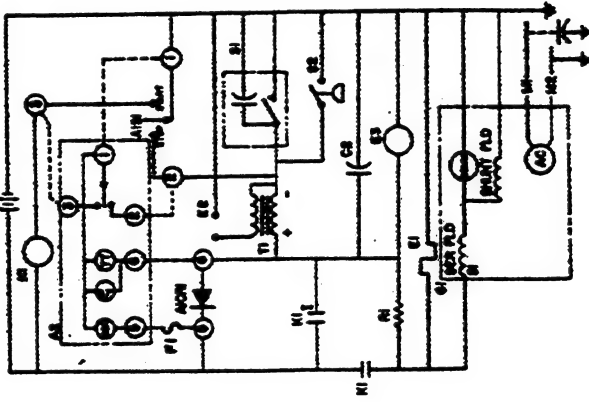
611C1094

611-1106 C

WIRING DIAGRAM



SCHEMATIC



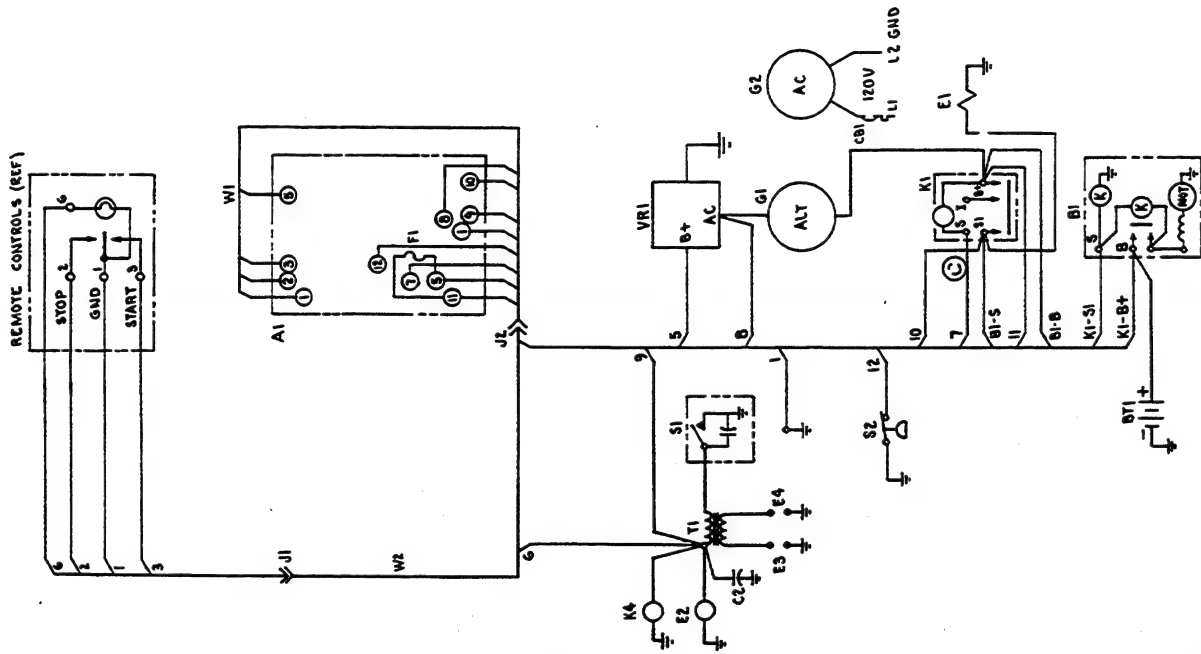
NOTE:
1. FUSE (5 AMP) TO BE SUPPLIED BY CUSTOMER TO PROTECT AGAINST ACCIDENTAL GROUNDING

PARTS LIST			
REF. DES.	PART NO.	QTY.	DESCRIPTION
A1	300C1035	1	CONTROL ASSY-GEN SET
A1C1	357-0022	1	DIODE ASSY (REF)
A1S1	308-0345	1	SWITCH-TOGGLE (REF)
A2	300-0986	1	REMOTE CONTROL (REF)
B1		1	BATTERY-12V
C2		1	CAPACITOR
E1		1	CHOKES-ONAN
E2		1	SWIRK PLUG
E3	307A1303	1	VALVE NOOD-FUEL (REF)
G1		1	GENERATOR
K1		1	SOLENOID-START
R1	353B0050	1	RESISTOR ASSY (REF) 10 ± 5% OHMS 45W
S1		1	BREAKER & CAP ASSY
S2	309P0237	1	SWITCH-LOW OIL PRESS (REF)
T1		1	COIL-IGNITION
F1	SEE NOTE #1		

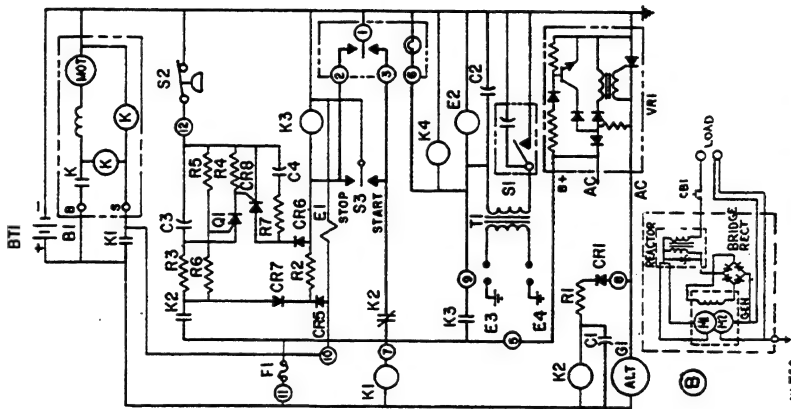
1. 300C1035	1	CONTROL ASSY-GEN SET
2. 357-0022	1	DIODE ASSY (REF)
3. 308-0345	1	SWITCH-TOGGLE (REF)
4. 300-0986	1	REMOTE CONTROL (REF)
5. 307A1303	1	VALVE NOOD-FUEL (REF)
6. 353B0050	1	RESISTOR ASSY (REF) 10 ± 5% OHMS 45W
7. 309P0237	1	SWITCH-LOW OIL PRESS (REF)
8. 300C1035	1	CONTROL ASSY-GEN SET
9. 357-0022	1	DIODE ASSY (REF)
10. 308-0345	1	SWITCH-TOGGLE (REF)
11. 300-0986	1	REMOTE CONTROL (REF)
12. 307A1303	1	VALVE NOOD-FUEL (REF)
13. 353B0050	1	RESISTOR ASSY (REF) 10 ± 5% OHMS 45W
14. 309P0237	1	SWITCH-LOW OIL PRESS (REF)
15. 300C1035	1	CONTROL ASSY-GEN SET
16. 357-0022	1	DIODE ASSY (REF)
17. 308-0345	1	SWITCH-TOGGLE (REF)
18. 300-0986	1	REMOTE CONTROL (REF)
19. 307A1303	1	VALVE NOOD-FUEL (REF)
20. 353B0050	1	RESISTOR ASSY (REF) 10 ± 5% OHMS 45W
21. 309P0237	1	SWITCH-LOW OIL PRESS (REF)
22. 300C1035	1	CONTROL ASSY-GEN SET
23. 357-0022	1	DIODE ASSY (REF)
24. 308-0345	1	SWITCH-TOGGLE (REF)
25. 300-0986	1	REMOTE CONTROL (REF)
26. 307A1303	1	VALVE NOOD-FUEL (REF)
27. 353B0050	1	RESISTOR ASSY (REF) 10 ± 5% OHMS 45W
28. 309P0237	1	SWITCH-LOW OIL PRESS (REF)
29. 300C1035	1	CONTROL ASSY-GEN SET
30. 357-0022	1	DIODE ASSY (REF)
31. 308-0345	1	SWITCH-TOGGLE (REF)
32. 300-0986	1	REMOTE CONTROL (REF)
33. 307A1303	1	VALVE NOOD-FUEL (REF)
34. 353B0050	1	RESISTOR ASSY (REF) 10 ± 5% OHMS 45W
35. 309P0237	1	SWITCH-LOW OIL PRESS (REF)
36. 300C1035	1	CONTROL ASSY-GEN SET
37. 357-0022	1	DIODE ASSY (REF)
38. 308-0345	1	SWITCH-TOGGLE (REF)
39. 300-0986	1	REMOTE CONTROL (REF)
40. 307A1303	1	VALVE NOOD-FUEL (REF)
41. 353B0050	1	RESISTOR ASSY (REF) 10 ± 5% OHMS 45W
42. 309P0237	1	SWITCH-LOW OIL PRESS (REF)
43. 300C1035	1	CONTROL ASSY-GEN SET
44. 357-0022	1	DIODE ASSY (REF)
45. 308-0345	1	SWITCH-TOGGLE (REF)
46. 300-0986	1	REMOTE CONTROL (REF)
47. 307A1303	1	VALVE NOOD-FUEL (REF)
48. 353B0050	1	RESISTOR ASSY (REF) 10 ± 5% OHMS 45W
49. 309P0237	1	SWITCH-LOW OIL PRESS (REF)
50. 300C1035	1	CONTROL ASSY-GEN SET
51. 357-0022	1	DIODE ASSY (REF)
52. 308-0345	1	SWITCH-TOGGLE (REF)
53. 300-0986	1	REMOTE CONTROL (REF)
54. 307A1303	1	VALVE NOOD-FUEL (REF)
55. 353B0050	1	RESISTOR ASSY (REF) 10 ± 5% OHMS 45W
56. 309P0237	1	SWITCH-LOW OIL PRESS (REF)
57. 300C1035	1	CONTROL ASSY-GEN SET
58. 357-0022	1	DIODE ASSY (REF)
59. 308-0345	1	SWITCH-TOGGLE (REF)
60. 300-0986	1	REMOTE CONTROL (REF)
61. 307A1303	1	VALVE NOOD-FUEL (REF)
62. 353B0050	1	RESISTOR ASSY (REF) 10 ± 5% OHMS 45W
63. 309P0237	1	SWITCH-LOW OIL PRESS (REF)
64. 300C1035	1	CONTROL ASSY-GEN SET
65. 357-0022	1	DIODE ASSY (REF)
66. 308-0345	1	SWITCH-TOGGLE (REF)
67. 300-0986	1	REMOTE CONTROL (REF)
68. 307A1303	1	VALVE NOOD-FUEL (REF)
69. 353B0050	1	RESISTOR ASSY (REF) 10 ± 5% OHMS 45W
70. 309P0237	1	SWITCH-LOW OIL PRESS (REF)
71. 300C1035	1	CONTROL ASSY-GEN SET
72. 357-0022	1	DIODE ASSY (REF)
73. 308-0345	1	SWITCH-TOGGLE (REF)
74. 300-0986	1	REMOTE CONTROL (REF)
75. 307A1303	1	VALVE NOOD-FUEL (REF)
76. 353B0050	1	RESISTOR ASSY (REF) 10 ± 5% OHMS 45W
77. 309P0237	1	SWITCH-LOW OIL PRESS (REF)
78. 300C1035	1	CONTROL ASSY-GEN SET
79. 357-0022	1	DIODE ASSY (REF)
80. 308-0345	1	SWITCH-TOGGLE (REF)
81. 300-0986	1	REMOTE CONTROL (REF)
82. 307A1303	1	VALVE NOOD-FUEL (REF)
83. 353B0050	1	RESISTOR ASSY (REF) 10 ± 5% OHMS 45W
84. 309P0237	1	SWITCH-LOW OIL PRESS (REF)
85. 300C1035	1	CONTROL ASSY-GEN SET
86. 357-0022	1	DIODE ASSY (REF)
87. 308-0345	1	SWITCH-TOGGLE (REF)
88. 300-0986	1	REMOTE CONTROL (REF)
89. 307A1303	1	VALVE NOOD-FUEL (REF)
90. 353B0050	1	RESISTOR ASSY (REF) 10 ± 5% OHMS 45W
91. 309P0237	1	SWITCH-LOW OIL PRESS (REF)
92. 300C1035	1	CONTROL ASSY-GEN SET
93. 357-0022	1	DIODE ASSY (REF)
94. 308-0345	1	SWITCH-TOGGLE (REF)
95. 300-0986	1	REMOTE CONTROL (REF)
96. 307A1303	1	VALVE NOOD-FUEL (REF)
97. 353B0050	1	RESISTOR ASSY (REF) 10 ± 5% OHMS 45W
98. 309P0237	1	SWITCH-LOW OIL PRESS (REF)
99. 300C1035	1	CONTROL ASSY-GEN SET
100. 357-0022	1	DIODE ASSY (REF)

611-1109

WIRING DIAGRAM



SCHEMATIC



NOTES:
1. DELUXE REMOTE CONTROL (310-088(2)) MAY BE USED IF AN ADDITIONAL WIRE FROM TERMINAL 5 OF 12 TO TERMINAL 5 OF DELUXE REMOTE CONTROL IS ADDED.

2. ON 4.0 HP-18/9500 AND 6.0 HP-18/9500 J1 IS ELIMINATED AND THE ADDITIONAL WIRE FOR THE DELUXE REMOTE CONTROLS IS PROVIDED.

3. MIN START DISCONNECT = 675 RPM.

REF. DES.	PART NO.	QTY	DESCRIPTION
A1	300-1075	1	CONTROL ASST-GEN SET
B1		1	STARTER-SOLENOID SHIFTER
B1-1		1	BATTERY-12 VOLT
C2		1	CAPACITOR
E1		1	CHOKE
E2		1	FUEL PUMP
E3-4		2	SPARK PLUG
G1		1	ALTERNATOR
K1		1	SOLENOID-START
K4		1	SOLENOID-FUEL
S1		1	BREAKER & CAP ASSY
S2		1	SWITCH-LOW OIL PRESS
T1		1	COIL-IGNITION
V1		1	VOLTAGE REGULATOR
W1		1	WIRING HARNESS-GEN SET
W2		1	WIRING HARNESS-REMOTE
Y1		1	CONNECTOR 4 CRT
Y2		1	CONNECTOR 12 CRT
		1	CIRCUIT BREAKER (40A 48P)
		1	CIRCUIT BREAKER (60A 8HH)

6011-1109

C1 WAS KI-1, TO KI-51	CONTRACT NO.	611-1109
B1 ADDED AC TO 5-CHEMICAL	DATE	7-15-73
A1 CBI ADDED	BY	EE
	CHKD	EE
	OUT	EE
	REV	1
	REV	2
	REV	3
	REV	4
	REV	5
	REV	6
	REV	7
	REV	8
	REV	9
	REV	10
	REV	11
	REV	12
	REV	13
	REV	14
	REV	15
	REV	16
	REV	17
	REV	18
	REV	19
	REV	20
	REV	21
	REV	22
	REV	23
	REV	24
	REV	25
	REV	26
	REV	27
	REV	28
	REV	29
	REV	30
	REV	31
	REV	32
	REV	33
	REV	34
	REV	35
	REV	36
	REV	37
	REV	38
	REV	39
	REV	40
	REV	41
	REV	42
	REV	43
	REV	44
	REV	45
	REV	46
	REV	47
	REV	48
	REV	49
	REV	50
	REV	51
	REV	52
	REV	53
	REV	54
	REV	55
	REV	56
	REV	57
	REV	58
	REV	59
	REV	60
	REV	61
	REV	62
	REV	63
	REV	64
	REV	65
	REV	66
	REV	67
	REV	68
	REV	69
	REV	70
	REV	71
	REV	72
	REV	73
	REV	74
	REV	75
	REV	76
	REV	77
	REV	78
	REV	79
	REV	80
	REV	81
	REV	82
	REV	83
	REV	84
	REV	85
	REV	86
	REV	87
	REV	88
	REV	89
	REV	90
	REV	91
	REV	92
	REV	93
	REV	94
	REV	95
	REV	96
	REV	97
	REV	98
	REV	99
	REV	100

MOORE NO.	4.0 HP-18/9500
MOORE NO.	6.0 HP-18/9500
MOORE NO.	120V, 1PH, 3W, 60 HZ

611-1109

611-1121

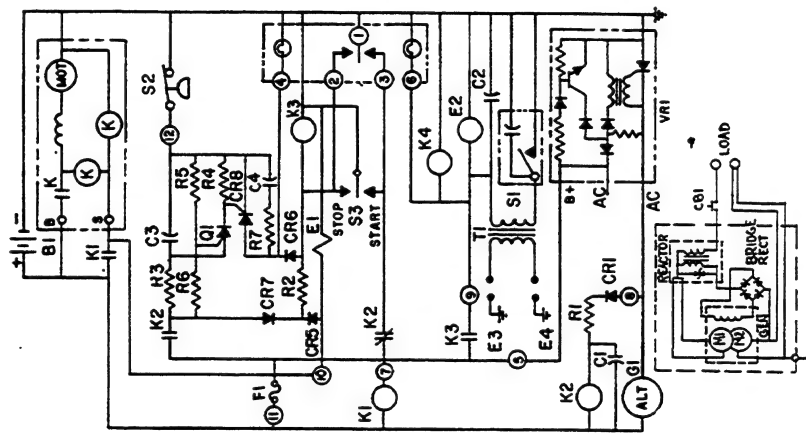
WIRING DIAGRAM

SCHEMATIC

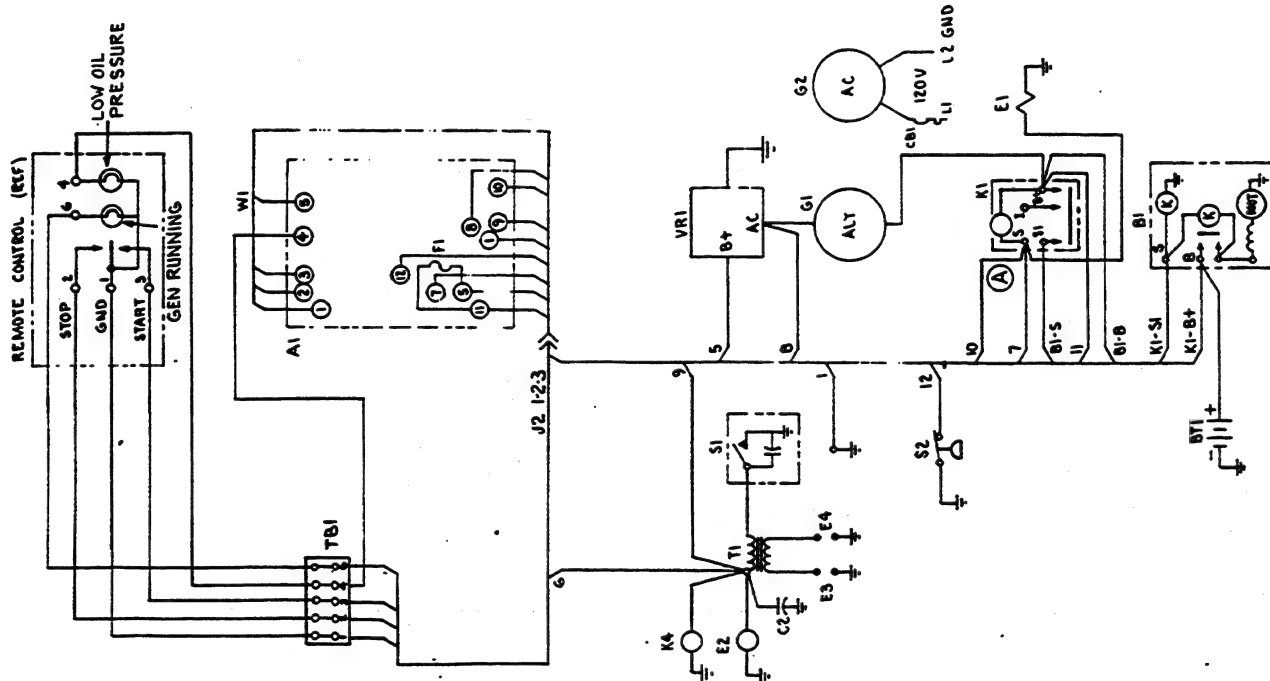
REF. DES. PART NO. QTY. DESCRIPTION

A1	300-1075	1	CONTROL ASSY-GEN SET
B1		1	CONTROL-NOT HOME
B11		1	STARTER-SOLENOID SHIF
B2		1	BATTERY-12 VOLT
E1		1	CHOKE
E2		1	FUEL PUMP
E3		2	SPARK PLUG
G1		1	ALTERNATOR
G2		1	GENERATOR
K1		1	SOLENOID-START
K2		1	SOLENOID-FUEL
K3		1	SWITCH-LOW OIL PRESS
K4		1	SWITCH-LOW OIL PRESS
S1		1	COIL-IGNITION
S2		1	VOLTAGE REGULATOR
VR1		1	WIRING HARNESS-GEN SET
TB1		1	REMOTE TERMINAL BLOCK
J2		1	CONNECTOR 12 CKT
CBI		1	CIRCUIT BREAKER (40A 4BF)

611-1121



NOTE:
1. MIN START DISCONNECT = 675 RPM

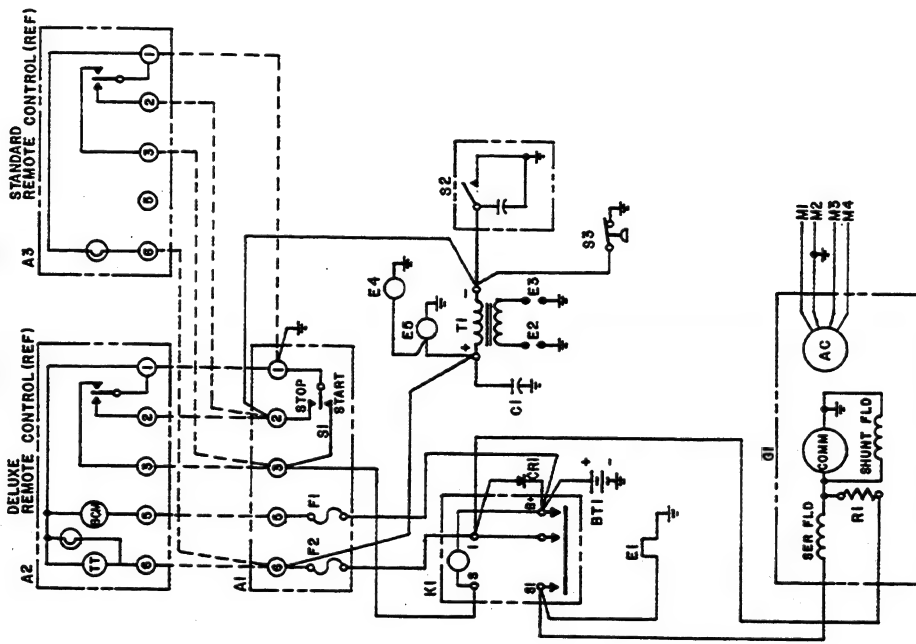


ATWAS KI-1 TO KI-51 (08/21/83)	
REVISION	DATE
1-2-75	6/27
CONTROL-GEN SET (WIRING DIAGRAM)	
611-1121	611-1121
HUNTSVILLE	

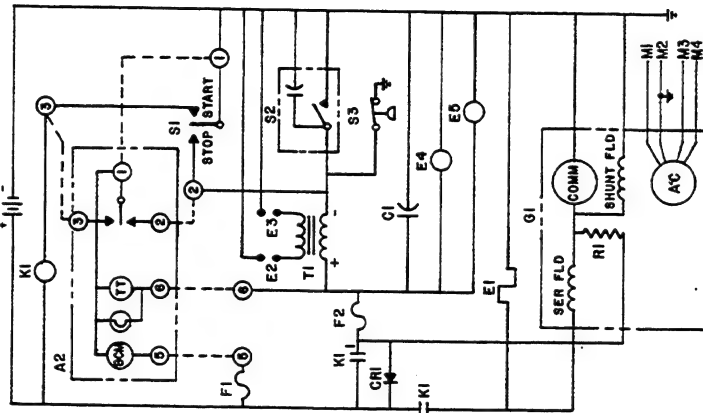
4.0 BF-1R/15203C	120V, 1PH, 3W, 60 Hz
------------------	----------------------

611-1123 C

WIRING DIAGRAM

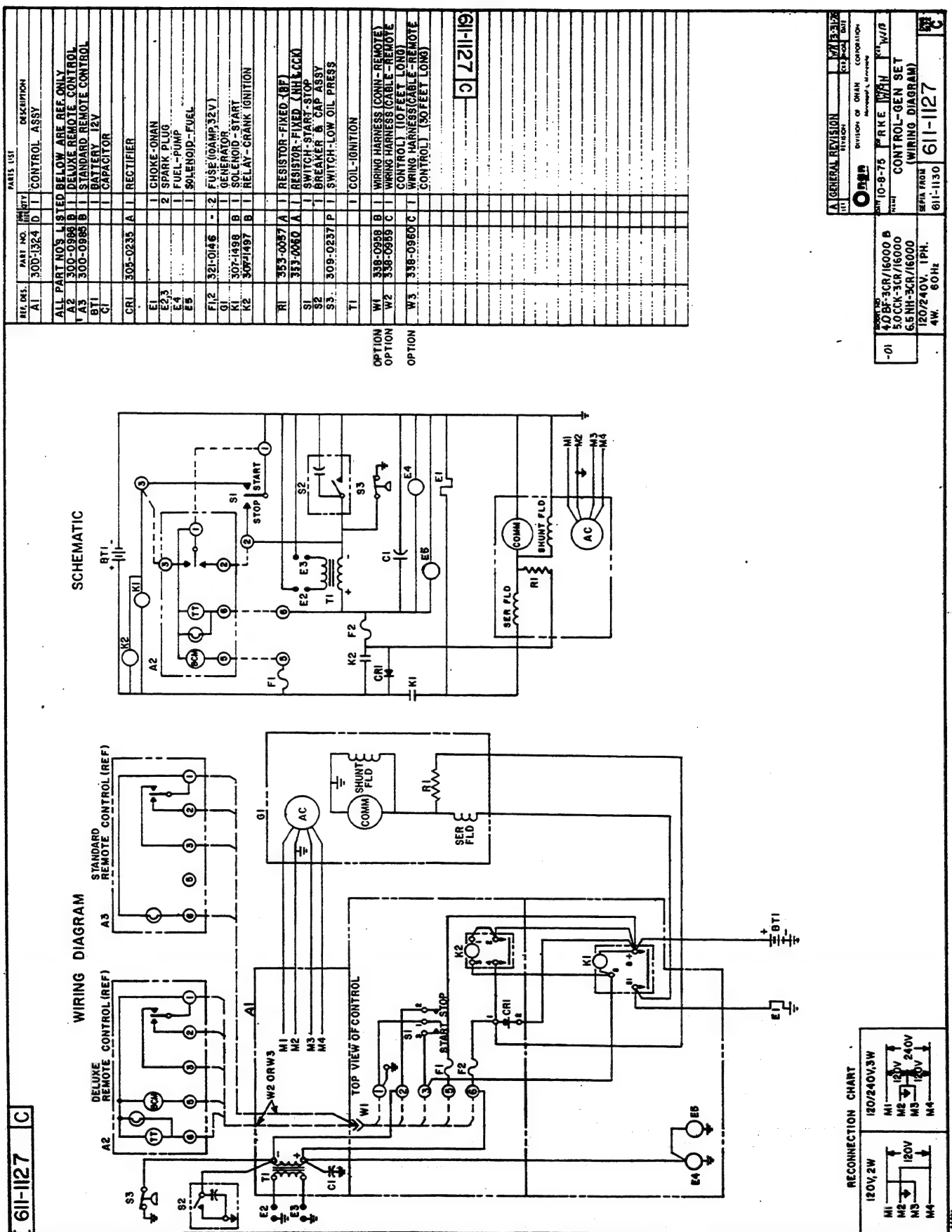


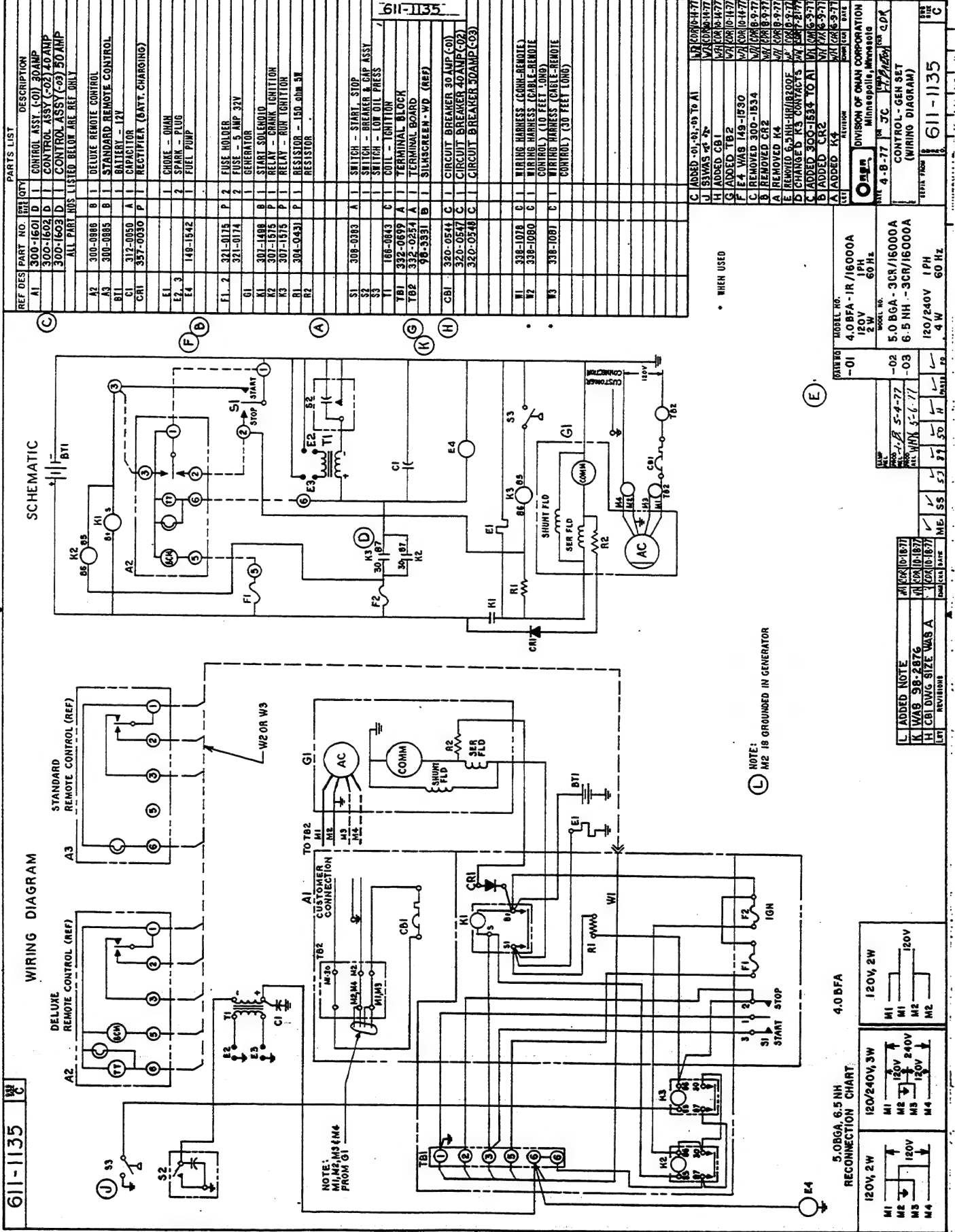
SCHEMATIC

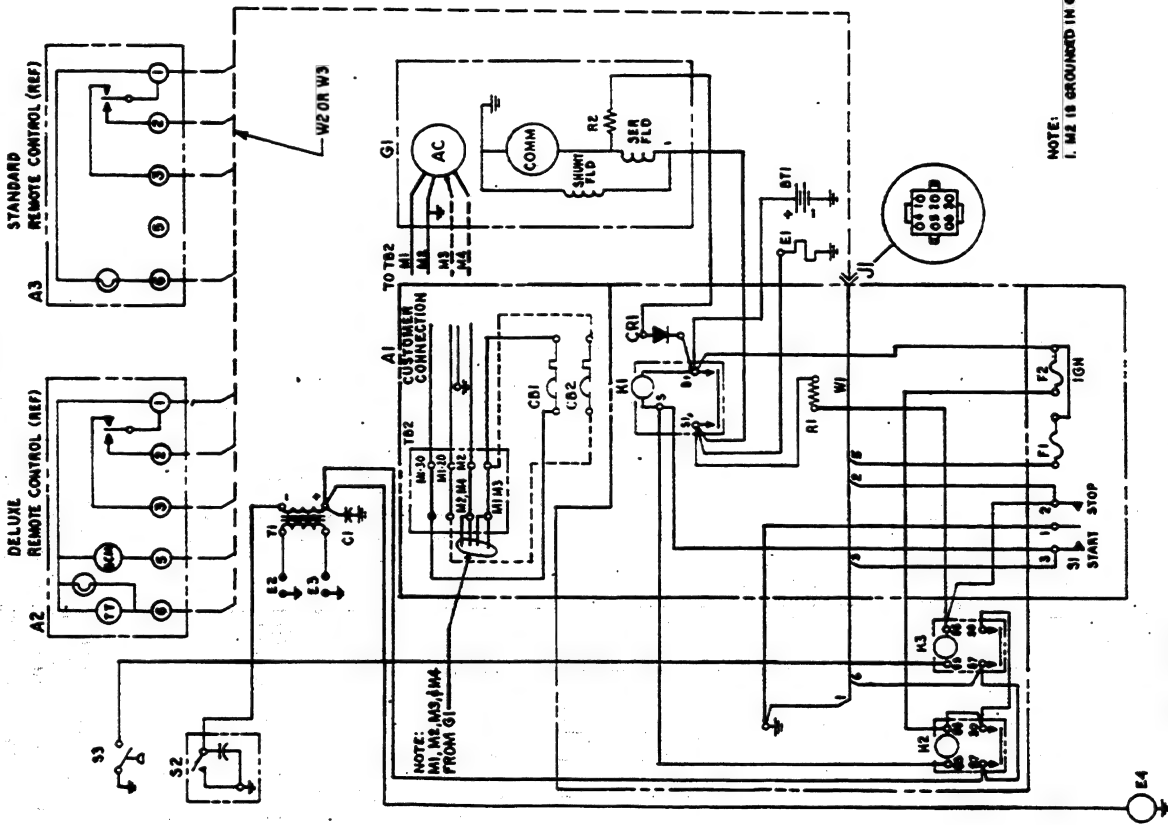
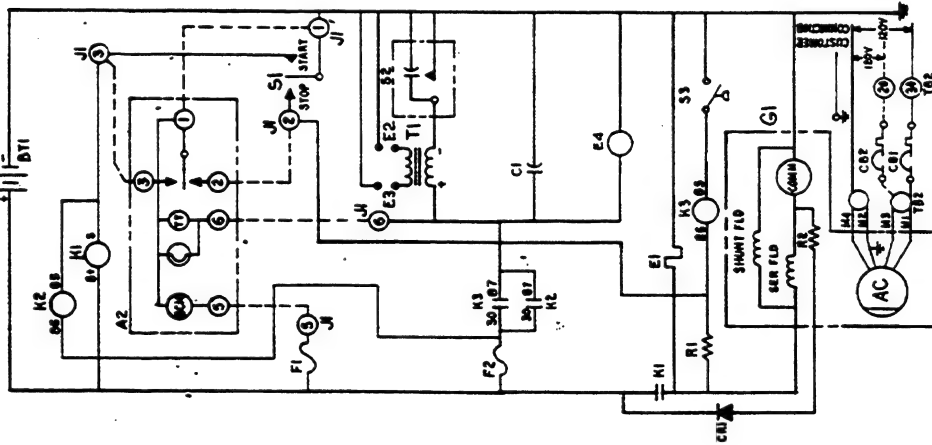
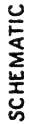


REF. DES.	PART NO.	QTY.	DESCRIPTION
A1	300-1255	1	CONTROL ASSY
A2	300-0968	1	DELUXE REMOTE CONTROL (REF)
A3	300-0969	1	STANDARD REMOTE CONT (REF)
BT1		1	BATTERY 12V
CI		1	CAPACITOR
CRI	358-0072	1	DIODE ASSY (REF)
E1		1	CHOKE-ONAN
E2	307-1457	1	SPARK PLUG
E4	149-1304	1	SOLENOID-FUEL (REF)
E5		1	FUEL-PUMP (REF)
F1	321-0194	2	FUSE (9 AMP, 32 V) (REF)
GI		1	GENERATOR
KI		1	SOLENOID-START
RI	353-0057	1	RESISTOR FIXED (REF)
S1		1	SWITCH-START-STOP
S2		1	BREAKER & CAP ASSY
S3	309-0237	1	SWITCH-LOW OIL PRESS (REF)
T1		1	COIL-IGNITION
W1	338-0958	1	WIRING HARNESS (CONN-REMOTE) (REF)
W2	338-0959	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W3	338-0960	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W4	338-0961	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W5	338-0962	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W6	338-0963	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W7	338-0964	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W8	338-0965	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W9	338-0966	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W10	338-0967	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W11	338-0968	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W12	338-0969	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W13	338-0970	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W14	338-0971	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W15	338-0972	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W16	338-0973	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W17	338-0974	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W18	338-0975	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W19	338-0976	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W20	338-0977	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W21	338-0978	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W22	338-0979	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W23	338-0980	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W24	338-0981	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W25	338-0982	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W26	338-0983	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W27	338-0984	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W28	338-0985	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W29	338-0986	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W30	338-0987	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W31	338-0988	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W32	338-0989	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W33	338-0990	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W34	338-0991	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W35	338-0992	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W36	338-0993	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W37	338-0994	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W38	338-0995	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W39	338-0996	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W40	338-0997	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W41	338-0998	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W42	338-0999	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W43	338-1000	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W44	338-1001	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W45	338-1002	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W46	338-1003	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W47	338-1004	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W48	338-1005	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W49	338-1006	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W50	338-1007	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W51	338-1008	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W52	338-1009	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W53	338-1010	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W54	338-1011	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W55	338-1012	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W56	338-1013	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W57	338-1014	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W58	338-1015	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W59	338-1016	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W60	338-1017	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W61	338-1018	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W62	338-1019	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W63	338-1020	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W64	338-1021	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W65	338-1022	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W66	338-1023	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W67	338-1024	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W68	338-1025	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W69	338-1026	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W70	338-1027	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W71	338-1028	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W72	338-1029	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W73	338-1030	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W74	338-1031	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W75	338-1032	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W76	338-1033	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W77	338-1034	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W78	338-1035	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W79	338-1036	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W80	338-1037	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W81	338-1038	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W82	338-1039	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W83	338-1040	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W84	338-1041	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W85	338-1042	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W86	338-1043	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W87	338-1044	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W88	338-1045	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W89	338-1046	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W90	338-1047	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W91	338-1048	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W92	338-1049	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W93	338-1050	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W94	338-1051	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W95	338-1052	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W96	338-1053	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W97	338-1054	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W98	338-1055	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W99	338-1056	1	WIRING HARNESS (CABLE-REMOTE) (REF)
W100	338-1057	1	WIRING HARNESS (CABLE-REMOTE) (REF)

A COMPLETED MODEL NO. 611-1123		DATE 4-10-75		BY JLB	
DIVISION OF STUDENT CONSTRUCTION		CIP 100		CIP 100	
PROJECT NO. 4-10-75		CIP 100		CIP 100	
TITLE CONTROL-GEN SET		CIP 100		CIP 100	
WIRING DIAGRAM		CIP 100		CIP 100	
-OI 4.0BF-3CR/6002A		120/240V, 1PH, 4W, 60Hz		611-1123	
RECONNECTION CHART		120V, 2W		120/240V, 3W	
M1 M2 M3 M4		M1 M2 M3 M4		M1 M2 M3 M4	



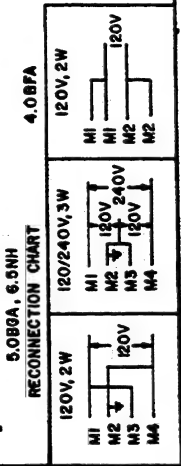




REF DES	PART NO.	QTY	DESCRIPTION
A1	300-1941 D	I	CONTROL ASSY - OI
B1	300-1942 D	I	CONTROL ASSY - OZ
ALL PART NOS LISTED BELOW ARE REF ONLY			
A2	300-0806 B	I	DELUXE REMOTE CONTROL
A3	300-0805 B	I	STANDARD REMOTE CONTROL
B11			BATTERY - 12V
C1	312-0050 A	I	CAPACITOR
C81	320-0444 C	I	CIRCUIT BREAKER 30AMP (-OI, -OZ)
C82	320-0402 A	I	CIRCUIT BREAKER 30AMP (-OZ)
C81	F57-0030 P	I	RECTIFIER (BATT. CHARGING)
E1			CHOKE - OHMAN
E2,3			SPARK PLUG
E4	149-1047 B	I	FUEL PUMP
F1, 2	321-0125 P	2	FUSE HOLDER
G1	321-0174 P	2	FUSE - 5 AMP 37V
H1			GENERATOR
K1	307-1480 B	I	START SOLENOID
K2	307-1375 P	I	RELAY - CHALK LIGHTON
K3	307-1375 P	I	RELAY - RUN LIGHTON
M1	304-0431 P	I	RESISTOR - 150 OHM 5W
R2			RESISTOR
J1	325-0440 C	I	SOCKET PLUG REMOTE
S1	308-0303 A	I	SWITCH - START STOP
S2			SWITCH - BREKBR & CAP ASSY
S3			SWITCH - LOW OIL PRESS
T1	166-0843 C	I	COIL - IGNITION
Y82	96-3331 B	I	SILKSCREEN - WD (RBF)
	332-0284 A	I	TERMINAL BOARD
W1	338-1078 C	I	WIRING HARNESS (CONH-REMOTE)
W2	338-1090 C	I	WIRING HARNESS (CABLE-REMOTE CONTROL), (10 FEET LONG)
W3	338-1091 C	I	WIRING HARNESS (CABLE-REMOTE CONTROL), (30 FEET LONG)

• WHEN USED •

NOTE:
1. M2 IS GROUNDED IN GENERATOR

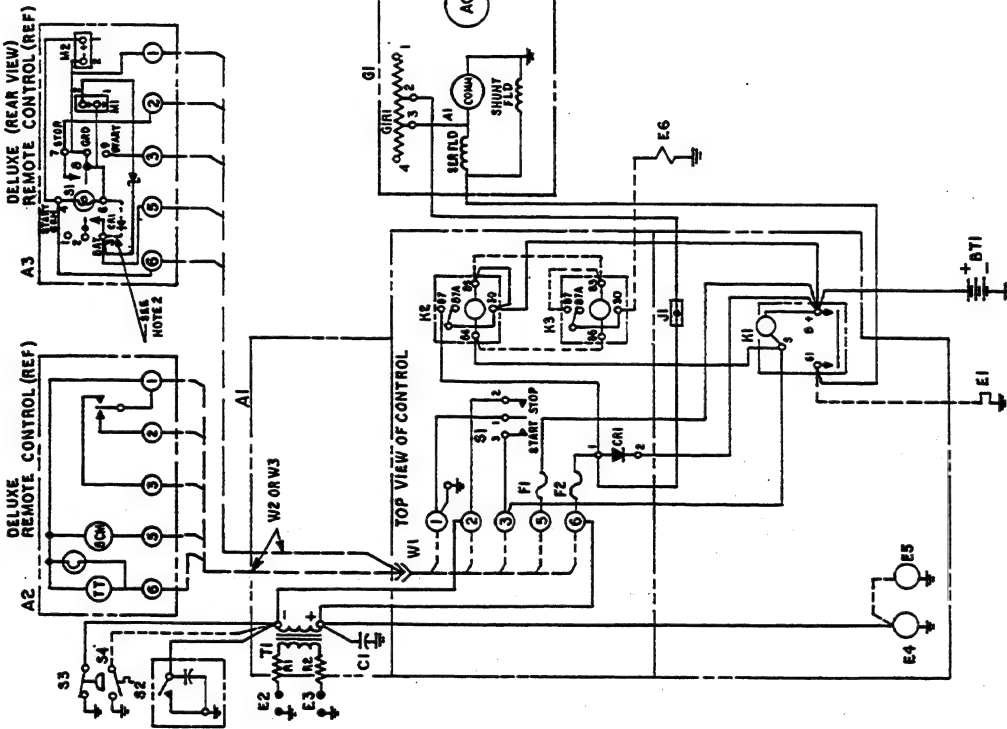


MODEL NO.	-01 4.0BFA-1R/16019A
	-02 5.0BGA-3CR/16019A
	6.5NH-3CR/16019K
	120V. 1PH
	4 W 60 Hz

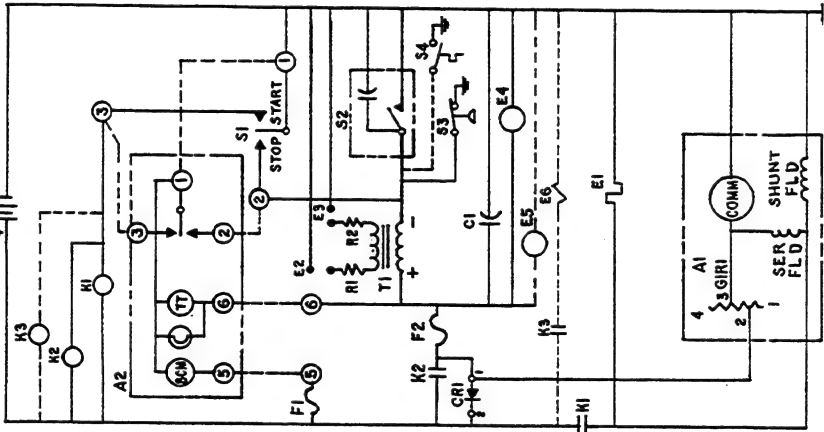
[illegible]

611-1141

WIRING DIAGRAM



SCHEMATIC



REF	DES	PART NO.	QTY	DESCRIPTION
A1		300-1843	1	CONTROL ASSY - 01 - 02
K3		307-1611	1	RELAY & LEAD ASSY - 02 (SEE NOTE 3)
A2		300-0880	1	DELUXE REMOTE CONTROL
A3		300-0843	1	BATTERY 12V
C1		305-0335	1	CAPACITOR
CRI		305-0335	1	RECTIFIER
E1, E3		305-0335	2	CHORE - ON/M
E4		305-0335	2	SPARK PLUG
E6		305-0335	1	FUEL PUMP
F1, F2		321-0174	2	SOLENOID - FUEL (WHEN USED)
G1		321-0174	2	FUSE (5 AMP, 32 V)
G1R1		333-0047	1	GENERATOR
J1		333-1508	1	RESISTOR
K1		307-1499	1	SPICE - WINDOW
K2		307-1575	1	SOLENOID-START
R1		307-1575	1	RELAY-IGNITION
R2		307-1575	1	LEAD ASSY - HI TEN
S1		307-1575	1	LEAD ASSY - HI TEN
S2		307-1575	1	SWITCH - START STOP
S3		307-1575	1	BREAKER & CAP ASSY
S4		307-1575	1	SWITCH - LOW OIL PRESS
T1		307-1575	1	SWITCH - HIGH AIR TEMP
W1		338-1120	1	COIL - IGNITION
W2		338-0959	1	WIRING HARNESS
W3		338-0960	1	WIRING HARNESS (CABLE - REMOTE CONTROL) (10 FEET LONG)
		338-0960	1	WIRING HARNESS (CABLE - REMOTE CONTROL) (30 FEET LONG)

NOTE:
1. REPLACES PC BOARD CONTROL (300-0859) FOR R.V.

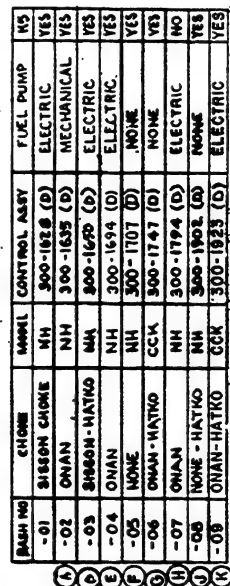
2. REMOVE CRI FROM 1 & 2

3. REMOVE LEAD ASSY FROM HARNESS (338-1120 (D))

RECONNECTION CHART

M1	120V, 2W	M1	120/240V, 3W
M2	120V	M2	120V
M3	120V	M3	120V
M4	120V	M4	120V

DECLARIFIED NOTE 2 1/1 15-9-273
A1 WAS 300-1595
REVISED 1/1 12/12/27
DIVISION OF ORAN CORPORATION
MINNEAPOLIS, MINNESOTA
UNIT ID-3-77 1/1 12/12/27
CONTROL - GEN SET
(WIRING DIAGRAM)
611-1141
611-1141



1. T01-5 IS FORB. OR REMOTE BATTERY CONDITION METER.

IBI-6 IS FOR A REMOTE RUNNING TIME METER OR
RUNNING LIGHT. CLASS TO SUMMER WAS 85-84 KAR 22-3-13

09	4.0 CK-3CR/21378U	D	ADDED -03	VT 01	2378
08	4.5 NH-3R/8749L	C	KH-34 WAS TO KH-30	WT 02	8749
07	5.0 NH-3R/1000K	B	KH-34 WAS TO KH-30	WT 03	1000
06	5.0 CK-3CR/1000R	A	ADDED TO W.D.	WT 04	1000
05	4.5 NH-3R/1878U	B	ADDED -02 MODEL	WT 05	1878
04	4.0 CK-3CR/1800U	A		WT 06	1800
03	6.5 NH-3R/1800U			WT 07	1800
02	6.5 NH-3R/1800U			WT 08	1800
01	6.5 NH-3CR/1L			WT 09	1800

09 4.0 CK-3CR/21378U

08 4.5 NH-3R/8749L

07 5.0 NH-3R/1000K

06 5.0 CK-3CR/1000R

05 4.5 NH-3R/1878U

04 4.0 CK-3CR/1800U

03 6.5 NH-3R/1800U

02 6.5 NH-3R/1800U

01 6.5 NH-3CR/1L

DIVISION OF ORAM CORPORATION
all times apply, irrespective

DATE 11-29-77 DAY 11/24 YEAR 1977

CONTROL - GEN SET
(WIRING DIAGRAM)

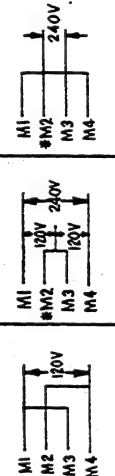
611-1129 611-1142

120/240 V
4 W
60 HZ

6.5NH-3CR/15000D

[illegible]

RECONNECTION CHART 1PH 4W



COMM
END
GROUND
C LEAD

BEAR ENH

ING	H	ADDED	0
D	G	ADDED	30

ASH -07
00-1747 (D)

06-27-08	W/A
06-27-08	

1X 12-1-77 -01

6.5NH-3CR/

15000 D

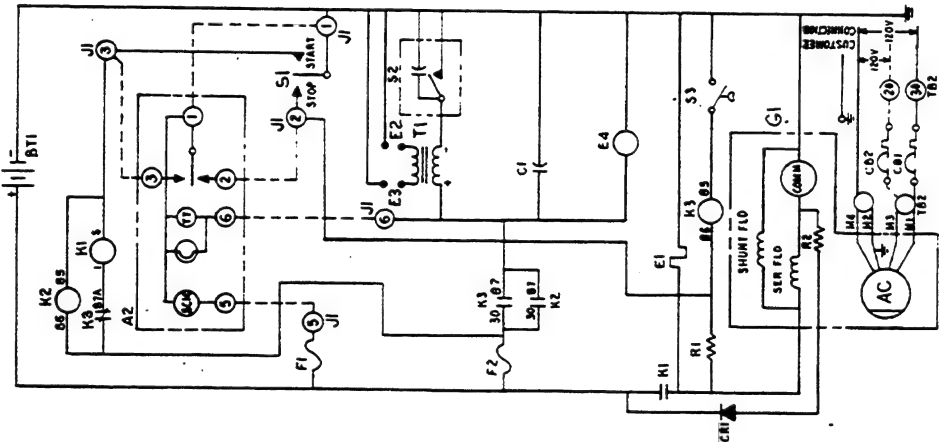
29-77	DAY
-------	-----

CONTROL - GE
(WIRING DIAGN)

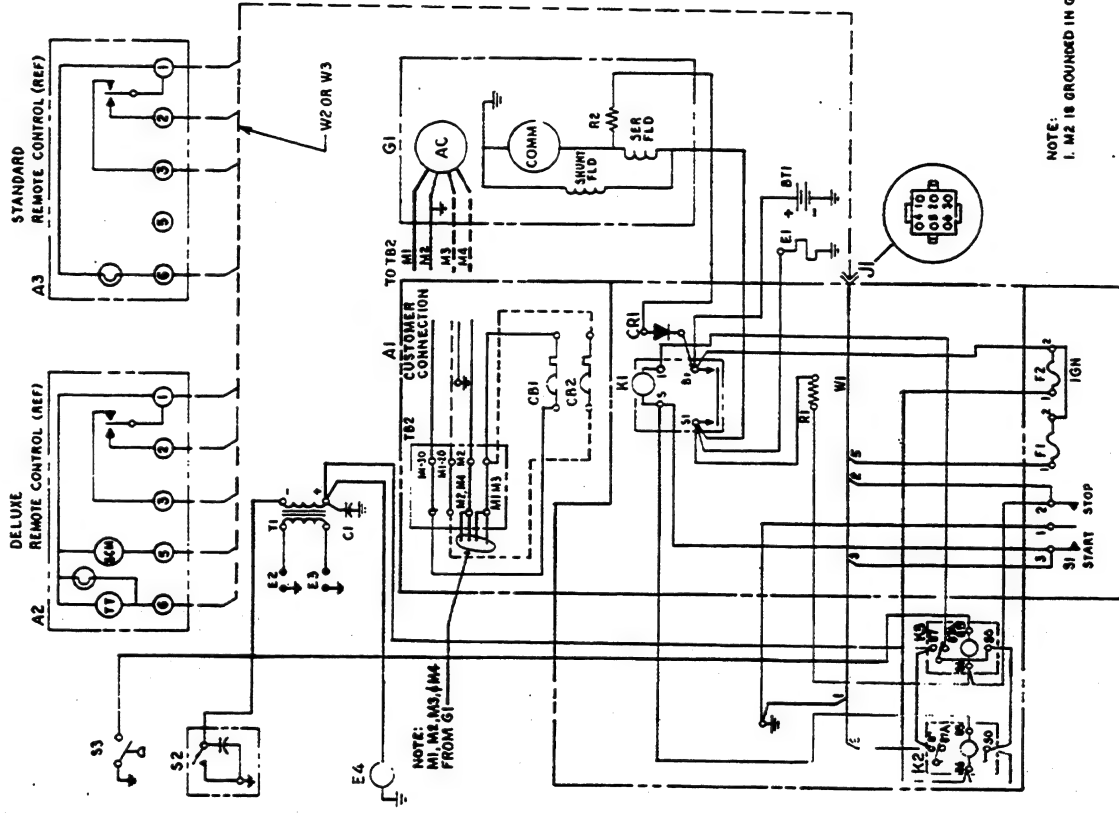
WHL CAR
IN SET
(AM)

REF DES	PART NO	QTY	DESCRIPTION
A1	300-1767 D	1	CONTROL ASSY - O1
	300-1768 D	1	CONTROL ASSY - O2
ALL PART NOS LISTED BELOW ARE REF ONLY			
A2	300-0886 B	1	DELUXE REMOTE CONTROL
A3	300-0885 B	1	STANDARD REMOTE CONTROL
B11	300-0885 B	1	BATTERY - 12V
C1	317-0050 A	1	CAPACITOR
CB1	320-0544 C	1	CIRCUIT BREAKER 30AMP (-O1 -O2)
CB2	320-0542 A	1	CIRCUIT BREAKER 20AMP (-O2)
CA1	337-0030 P	1	RECTIFIER (BATT. CHARGING)
E1		2	CHOKES - ONAN
E2,3		2	SPARK - PLUG
E4		1	FUEL PUMP
F1,2	321-0115 P	2	FUSE HOLDER
	321-0114	2	FUSE - 5 AMP 32V
G1		1	GENERATOR
K1	307-1617 B	1	START SOLENOID
K2	307-1515 P	1	RELAY - CRANK IGNITION
K3	307-1515 P	1	RELAY - RUN IGNITION
R1	304-0431 P	1	RESISTOR - 150 OHM 5W
R2		1	RESISTOR
J1	323-0440 C	1	SOCKET PLUG REMOTE
S1	308-0383 A	1	SWITCH - START STOP
S2		1	SWITCH - BREAKER & CAP ASSY
S3		1	SWITCH - LOW OIL PRESS
T1	166-0843 C	1	COIL - IGNITION
		1	SILVERGREEN - SCHEMATIC
YB2	332-0234 A	1	TERMINAL BOARD
		1	WIRING HARNESS (CONN. REMOTE)
		1	WIRING HARNESS (CABLE REMOTE)
		1	CONTROL - 10 FEET LONG
		1	WIRING HARNESS (CABLE REMOTE)
		1	CONTROL - 10 FEET LONG

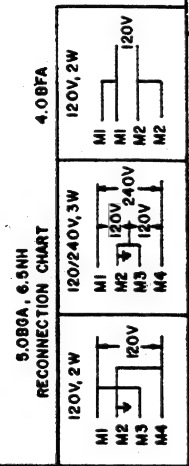
SCHEMATIC



WIRING DIAGRAM



NOTE:
1. M2 IS GROUND IN GENERATOR

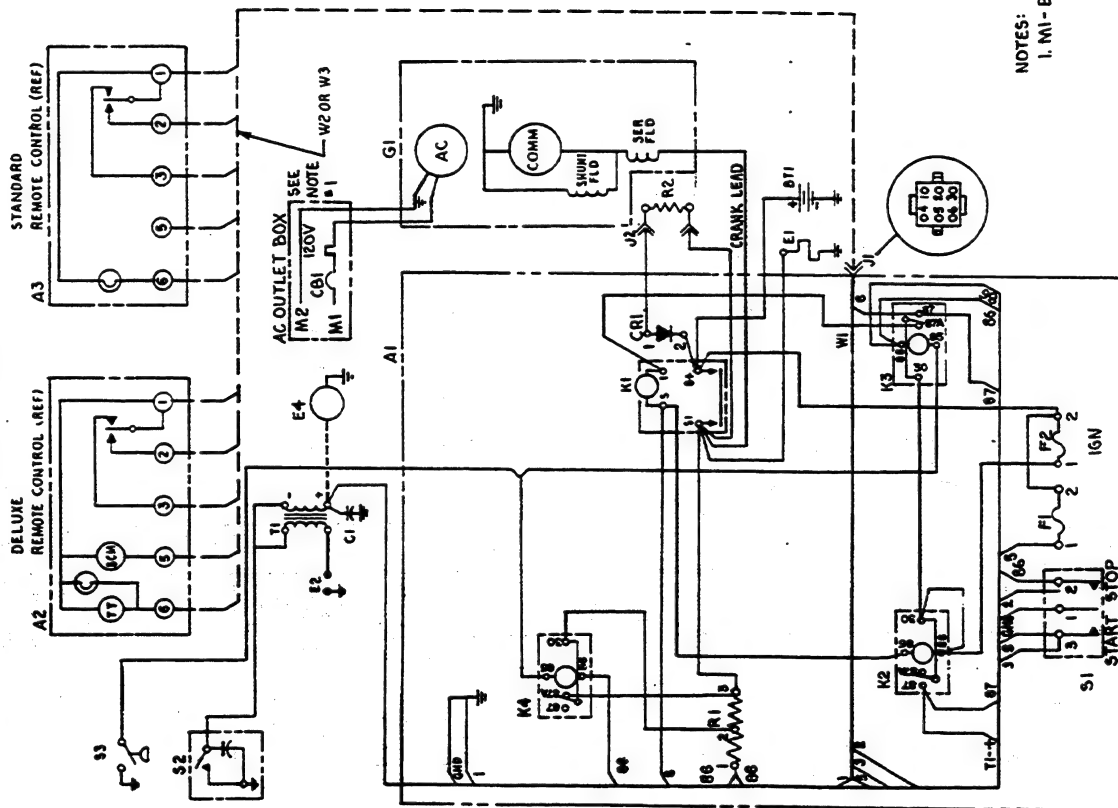


THIS DOCUMENT SUBJECT TO FOLLOWING LIMITATIONS/NOTES:
 1. TO MAINTAIN THIS DOCUMENT, NO CHANGE OR
 2. TO BE USED FOR THE PURPOSE OF
 3. COPIES & THIS FORM
 4. 5-15-79
 5. DATE
 6. 6.5NH
 7. 5-15-79
 8. 6.5NH
 9. 5-15-79
 10. 6.5NH
 11. 5-15-79
 12. 6.5NH
 13. 5-15-79
 14. 6.5NH
 15. 5-15-79
 16. 6.5NH
 17. 5-15-79
 18. 6.5NH
 19. 5-15-79
 20. 6.5NH

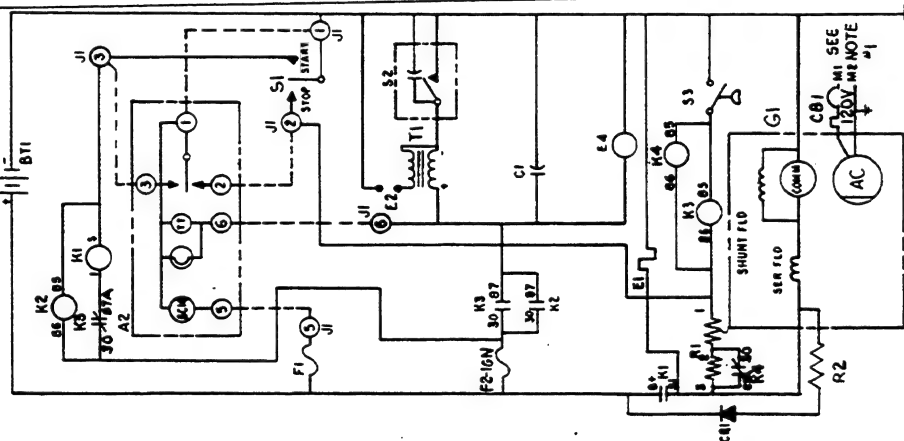
MODEL NO
 -O1 4.0BFA-1R/16019/B
 -O2 5.0BFA-3CR/16019/B
 6.5NH 3CR/16019/B

ADDITIONAL STDCODES LABEL
 9-23-78
 611-1147
 611-1136
 611-1147

WIRING DIAGRAM



SCHEMATIC



NOTES:
1. M1 - BLACK, M2 - WHITE

PARTS LIST			
REF DES	PART NO	QTY	DESCRIPTION
A1	300-1781	C	CONTROL ASSY
ALL PART NOS LISTED BELOW ARE REF ONLY			
A2	300-0986	P	DELUXE REMOTE CONTROL
A3	300-0983	B	STANDARD REMOTE CONTROL
B1	312-0050	A	BATTERY - 12V
C1	337-0030	P	CAPACITOR
CRI	337-0030	P	RECTIFIER (BATT. CHARGING)
CBI	320-0544	C	30 AMP CIRCUIT BRK
L1		I	CHOKE - OHM
L2		I	SPARK PLUG
F4	307-1302	A	SOLENOID FUEL SHUT OFF
F1, 2	321-0175	P	FUSE HOLDER
G1	321-0174	P	FUSE - 5 AMP 32V
K1	301-1817	B	START SOLENOID
K2	301-1515	P	RELAY - CRANK IGNITION
K3	301-1515	P	RELAY - RUN IGNITION
K4	307-1878	P	RELAY - IGNITION
R1	304-0739	P	RESISTOR - 175 OHM 6 W
R2	333-0086		RESISTOR - 10 OHM 6 W
S1	308-0383	A	SWITCH START STOP
S2		I	SWITCH - BREAKER & CAP ASSY
S3		I	SWITCH - LOB OIL PRESS
T1	186-0278	C	COTL - IGNITION
611-1148			
J1	98-3769	B	WILMARESS - SCHEMATIC
J2	223-0240	C	SOCKET PLUG - REMOTE
	308-0020	A	BUSHING - TERMINAL
W1	338-1111	C	WIRING HARNESS (CORN-REMOLE)
W2	338-1080	C	WIRING HARNESS (CARL-REMOLE)
W3	338-1001	C	WIRING HARNESS (CARL-REMOLE)
			CONTROL - 30 TET LONG

QASO NIHAU

3540	BLAD WHEN USED TO 24	N	RWD 880
U	A 100 378 CONT 1411		DATE 12/21/82
ER	TERMINO	POSTED	EXT
OZ	DIVISION OF OMNI CORPORATION Minneapolis, Minnesota		
NOV 10-12-82	1 st BC	1 st VACAT	RD 001
CONTROL - GEN SET (WINDING DIAGRAM)			
112712 TOW			UNIT C
611-1148			

THIS DOCUMENT SUBJECT TO FOLLOWING STANDARDS/COIS

_____ ☒ CIA ☐ _____ ☐ _____

TO MAINTAIN THIS COMPLIANCE, NO CHANGES OR
DEVIATIONS TO BE MADE W/O APPROVAL OF:

COIS & STDS ENR. ☒ USIP ☐ IIP ☐ NOLO

RM.6 *Edg.* / 7-23-72

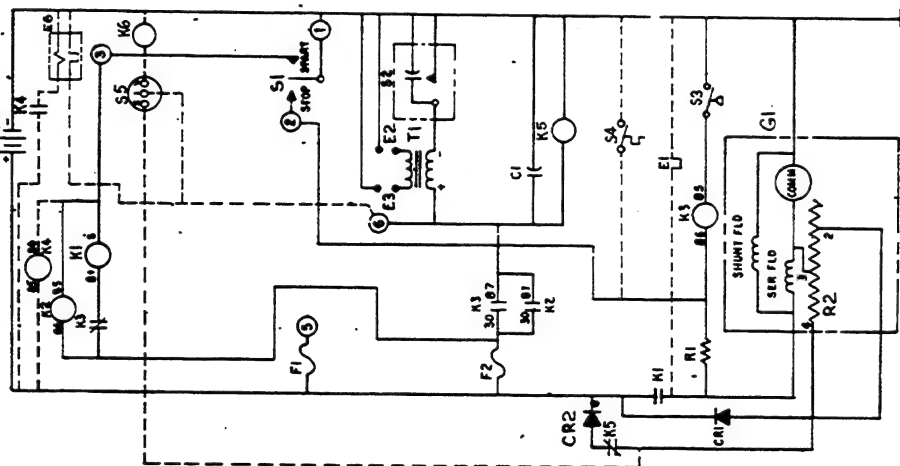
SIGNED _____ DATE _____

✓	ME.	SS	94	50	718	52	6810	PO
---	-----	----	----	----	-----	----	------	----

611-1152

SCHEMATIC 98-3430

REF DES	PART NO.	QTY	DESCRIPTION
A1	302-1871	1	CONTROL ASSY (-01 + -03)
	307-1632	1	RELAY ASSY -02 (SEE NOTE 2)
ALL PART NOS LISTED BELOW ARE REF ONLY			
B11	312-0050	1	BATTERY - 12V
C1	337-0050	2	RECTIFIER (BATT. CHARGING)
E1		1	CHOKE - OHMAN (-01)
E2		2	SPARK - PLUG
F1	321-0175	2	FUSE HOLDER
F2	321-0174	2	FUSE - 5 AMP 37V
G1	307-1632	1	GENERATOR
K1	307-1632	1	START SOLENOID
K2	307-1632	1	RELAY - CRANK IGNITION
K3	307-1632	1	RELAY - RUN IGNITION
K4	307-1632	1	RESISTOR - 100 OHM 5W
K5	307-1632	1	RELAY - CHARGE
K6	307-1632	1	RELAY ASSY
S1	308-0383	1	FUEL SOLENOID (NAT GAS ONLY)
S2	308-0383	1	SWITCH - START, STOP
S3	188-0843	1	SWITCH - BREAKER & CAP ASSY
T1	188-0843	1	SWITCH - LOW OIL PRESS
T2	332-0899	1	COIL - IGNITION
T3	332-0899	1	TERMINAL BLOCK
W1	98-3430	1	SWITCH - HIGH AIR TEMP
W2	98-3430	1	SWITCH - VACUUM (FUEL SOLENOID)
W3	98-3430	1	SWITCH - THERMO MAG (-02)



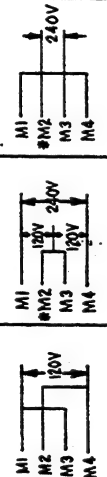
NOTE:

1. TBI-5 IS FORB. OR REMOTE BATTERY CONDITION METER. TBI-6 IS FOR A REMOTE RUNNING TIME METER OR RUNNING LIGHT.
2. REMOVE 336-3054 LEAD (E1, K1-S1) FROM 338-1218 HARNESS FOR -02.

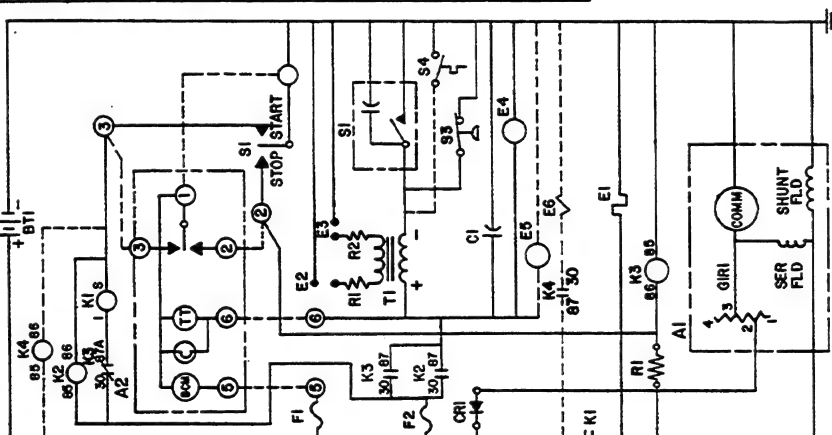
WV VOLTAGE CODE
 3C 120/240V, 1PH
 4 120/208V, 3PH
 5D 120/208V, 3PH
 7 220/380V, 3PH
 4X 277/480V, 3PH
 7X 240/416V, 3PH

AC SLIP RING
 M1 M1 M1 M1 M1 M1
 M2 M2 M2 M2 M2 M2
 M3 M3 M3 M3 M3 M3
 M4 M4 M4 M4 M4 M4
 * GROUNDED AC LEAD
 * BEARING END

RECONNECTION CHART 1PH 4W



DATE	BY	CHKD	APPD
1-4-73	WJH		
DIVISION OF CHAM CORPORATION Huntsville, Tennessee			
CONTROL - GEN SET (WIRING DIAGRAM)			
DATE	BY	CHKD	APPD
611-11			
611-1152			
HUNTSVILLE			



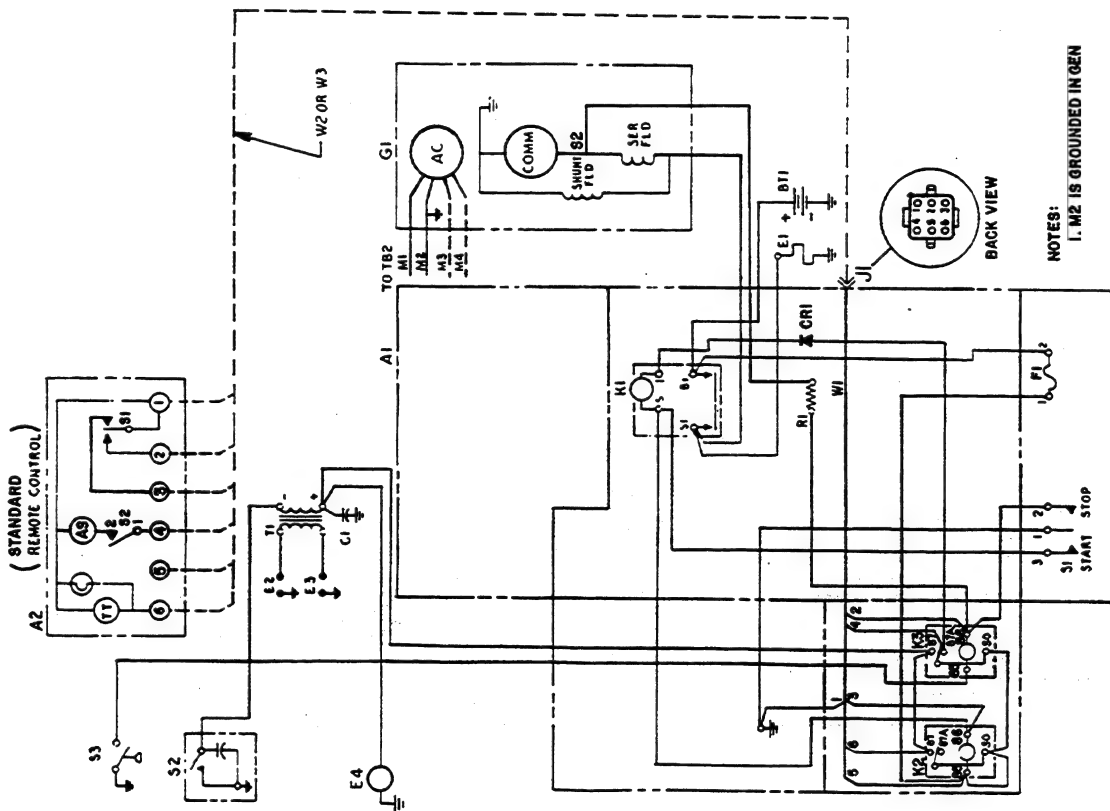
1. REPLACES PC BOARD CONTROL (300-0859) FOR RV.
2. REMOVE CR11 FROM 1 B. 2. AND JUMPER FROM 1 TO GND (FROM GIR1) IN GEN END BELL
3. REMOVE 336 - 3260 LEAD ASSY FROM HARNESS (338 - 1337 (D)).

REFERENCES	PART NO.	PARTS LIST	DESCRIPTION
		QTY	
A1	300-0026	D	CONTROL ASSY -OI -02
K4	307-1872	A	RELAY & LEAD ASSY -02 (SEE NOTE 3)
ALL PART NOS BELOW ARE REF ONLY			
A2	300-0986	B	DELUXE REMOTE CONTROL
A3	300-0943	B	DELUXE REMOTE CONTROL
B11			BATTERY 12V
C1			RECHARGER
C11	387-0030	A	SPARK PLUG
E2, E3		2	FUEL PUMP
E4		1	SOLENOID - FUEL (WHEN USED)
E5		1	CHAKE - BISSON (-02)
E6		2	FUSE (5 AMP, 32 V)
FL72	321-0174	-	GENERATOR
G1		1	RESISTOR
G11			SWITCH WINDOW
J1	332-1808	B	SOLENOID - START
K1	307-1817	P	RELAY - IGNITION
L2, L3, L4, L5, L6, L7, L8, L9, L10, L11, L12, L13, L14, L15, L16, L17, L18, L19, L20, L21, L22, L23, L24, L25, L26, L27, L28, L29, L30, L31, L32, L33, L34, L35, L36, L37, L38, L39, L40, L41, L42, L43, L44, L45, L46, L47, L48, L49, L50, L51, L52, L53, L54, L55, L56, L57, L58, L59, L60, L61, L62, L63, L64, L65, L66, L67, L68, L69, L70, L71, L72, L73, L74, L75, L76, L77, L78, L79, L80, L81, L82, L83, L84, L85, L86, L87, L88, L89, L90, L91, L92, L93, L94, L95, L96, L97, L98, L99, L100, L101, L102, L103, L104, L105, L106, L107, L108, L109, L110, L111, L112, L113, L114, L115, L116, L117, L118, L119, L120, L121, L122, L123, L124, L125, L126, L127, L128, L129, L130, L131, L132, L133, L134, L135, L136, L137, L138, L139, L140, L141, L142, L143, L144, L145, L146, L147, L148, L149, L150, L151, L152, L153, L154, L155, L156, L157, L158, L159, L160, L161, L162, L163, L164, L165, L166, L167, L168, L169, L170, L171, L172, L173, L174, L175, L176, L177, L178, L179, L180, L181, L182, L183, L184, L185, L186, L187, L188, L189, L190, L191, L192, L193, L194, L195, L196, L197, L198, L199, L200, L201, L202, L203, L204, L205, L206, L207, L208, L209, L210, L211, L212, L213, L214, L215, L216, L217, L218, L219, L220, L221, L222, L223, L224, L225, L226, L227, L228, L229, L230, L231, L232, L233, L234, L235, L236, L237, L238, L239, L240, L241, L242, L243, L244, L245, L246, L247, L248, L249, L250, L251, L252, L253, L254, L255, L256, L257, L258, L259, L260, L261, L262, L263, L264, L265, L266, L267, L268, L269, L270, L271, L272, L273, L274, L275, L276, L277, L278, L279, L280, L281, L282, L283, L284, L285, L286, L287, L288, L289, L290, L291, L292, L293, L294, L295, L296, L297, L298, L299, L300, L301, L302, L303, L304, L305, L306, L307, L308, L309, L310, L311, L312, L313, L314, L315, L316, L317, L318, L319, L320, L321, L322, L323, L324, L325, L326, L327, L328, L329, L330, L331, L332, L333, L334, L335, L336, L337, L338, L339, L340, L341, L342, L343, L344, L345, L346, L347, L348, L349, L350, L351, L352, L353, L354, L355, L356, L357, L358, L359, L360, L361, L362, L363, L364, L365, L366, L367, L368, L369, L370, L371, L372, L373, L374, L375, L376, L377, L378, L379, L380, L381, L382, L383, L384, L385, L386, L387, L388, L389, L390, L391, L392, L393, L394, L395, L396, L397, L398, L399, L400, L401, L402, L403, L404, L405, L406, L407, L408, L409, L410, L411, L412, L413, L414, L415, L416, L417, L418, L419, L420, L421, L422, L423, L424, L425, L426, L427, L428, L429, L430, L431, L432, L433, L434, L435, L436, L437, L438, L439, L440, L441, L442, L443, L444, L445, L446, L447, L448, L449, L450, L451, L452, L453, L454, L455, L456, L457, L458, L459, L460, L461, L462, L463, L464, L465, L466, L467, L468, L469, L470, L471, L472, L473, L474, L475, L476, L477, L478, L479, L480, L481, L482, L483, L484, L485, L486, L487, L488, L489, L490, L491, L492, L493, L494, L495, L496, L497, L498, L499, L500, L501, L502, L503, L504, L505, L506, L507, L508, L509, L510, L511, L512, L513, L514, L515, L516, L517, L518, L519, L520, L521, L522, L523, L524, L525, L526, L527, L528, L529, L530, L531, L532, L533, L534, L535, L536, L537, L538, L539, L540, L541, L542, L543, L544, L545, L546, L547, L548, L549, L550, L551, L552, L553, L554, L555, L556, L557, L558, L559, L560, L561, L562, L563, L564, L565, L566, L567, L568, L569, L570, L571, L572, L573, L574, L575, L576, L577, L578, L579, L580, L581, L582, L583, L584, L585, L586, L587, L588, L589, L590, L591, L592, L593, L594, L595, L596, L597, L598, L599, L600, L601, L602, L603, L604, L605, L606, L607, L608, L609, L610, L611, L612, L613, L614, L615, L616, L617, L618, L619, L620, L621, L622, L623, L624, L625, L626, L627, L628, L629, L630, L631, L632, L633, L634, L635, L636, L637, L638, L639, L640, L641, L642, L643, L644, L645, L646, L647, L648, L649, L650, L651, L652, L653, L654, L655, L656, L657, L658, L659, L660, L661, L662, L663, L664, L665, L666, L667, L668, L669, L670, L671, L672, L673, L674, L675, L676, L677, L678, L679, L680, L681, L682, L683, L684, L685, L686, L687, L688, L689, L690, L691, L692, L693, L694, L695, L696, L697, L698, L699, L700, L701, L702, L703, L704, L705, L706, L707, L708, L709, L710, L711, L712, L713, L714, L715, L716, L717, L718, L719, L720, L721, L722, L723, L724, L725, L726, L727, L728, L729, L730, L731, L732, L733, L734, L735, L736, L737, L738, L739, L740, L741, L742, L743, L744, L745, L746, L747, L748, L749, L750, L751, L752, L753, L754, L755, L756, L757, L758, L759, L760, L761, L762, L763, L764, L765, L766, L767, L768, L769, L770, L771, L772, L773, L774, L775, L776, L777, L778, L779, L780, L781, L782, L783, L784, L785, L786, L787, L788, L789, L790, L791, L792, L793, L794, L795, L796, L797, L798, L799, L800, L801, L802, L803, L804, L805, L806, L807, L808, L809, L810, L811, L812, L813, L814, L815, L816, L817, L818, L819, L820, L821, L822, L823, L824, L825, L826, L827, L828, L829, L830, L831, L832, L833, L834, L835, L836, L837, L838, L839, L840, L841, L842, L843, L844, L845, L846, L847, L848, L849, L850, L851, L852, L853, L854, L855, L856, L857, L858, L859, L860, L861, L862, L863, L864, L865, L866, L867, L868, L869, L870, L871, L872, L873, L874, L875, L876, L877, L878, L879, L880, L881, L882, L883, L884, L885, L886, L887, L888, L889, L890, L891, L892, L893, L894, L895, L896, L897, L898, L899, L900, L901, L902, L903, L904, L905, L906, L907, L908, L909, L910, L911, L912, L913, L914, L915, L916, L917, L918, L919, L920, L921, L922, L923, L924, L925, L926, L927, L928, L929, L930, L931, L932, L933, L934, L935, L936, L937, L938, L939, L940, L941, L942, L943, L944, L945, L946, L947, L948, L949, L950, L951, L952, L953, L954, L955, L956, L957, L958, L959, L960, L961, L962, L963, L964, L965, L966, L967, L968, L969, L970, L971, L972, L973, L974, L975, L976, L977, L978, L979, L980, L981, L982, L983, L984, L985, L986, L987, L988, L989, L990, L991, L992, L993, L994, L995, L996, L997, L998, L999, L1000, L1001, L1002, L1003, L1004, L1005, L1006, L1007, L1008, L1009, L1010, L1011, L1012, L1013, L1014, L1015, L1016, L1017, L1018, L1019, L1020, L1021, L1022, L1023, L1024, L1025, L1026, L1027, L1028, L1029, L1030, L1031, L1032, L1033, L1034, L1035, L1036, L1037, L1038, L1039, L1040, L1041, L1042, L1043, L1044, L1045, L1046, L1047, L1048, L1049, L1050, L1051, L1052, L1053, L1054, L1055, L1056, L1057, L1058, L1059, L1060, L1061, L1062, L1063, L1064, L1065, L1066, L1067, L1068, L1069, L1070, L1071, L1072, L1073, L1074, L1075, L1076, L1077, L1078, L1079, L1080, L1081, L1082, L1083, L1084, L1085, L1086, L1087, L1088, L1089, L1090, L1091, L1092, L1093, L1094, L1095, L1096, L1097, L1098, L1099, L1100, L1101, L1102, L1103, L1104, L1105, L1106, L1107, L1108, L1109, L1110, L1111, L1112, L1113, L1114, L1115, L1116, L1117, L1118, L1119, L1120, L1121, L1122, L1123, L1124, L1125, L1126, L1127, L1128, L1129, L1130, L1131, L1132, L1133, L1134, L1135, L1136, L1137, L1138, L1139, L1140, L1141, L1142, L1143, L1144, L1145, L1146, L1147, L1148, L1149, L1150, L1151, L1152, L1153, L1154, L1155, L1156, L1157, L1158, L1159, L1160, L1161, L1162, L1163, L1164, L1165, L1166, L1167, L1168, L1169, L1170, L1171, L1172, L1173, L1174, L1175, L1176, L1177, L1178, L1179, L1180, L1181, L1182, L1183, L1184, L1185, L1186, L1187, L1188, L1189, L1190, L1191, L1192, L1193, L1194, L1195, L1196, L1197, L1198, L1199, L1200, L1201, L1202, L1203, L1204, L1205, L1206, L1207, L1208, L1209, L1210, L1211, L1212, L1213, L1214, L1215, L1216, L1217, L1218, L1219, L1220, L1221, L1222, L1223, L1224, L1225, L1226, L1227, L1228, L1229, L1230, L1231, L1232, L1233, L1234, L1235, L1236, L1237, L1238, L1239, L1240, L1241, L1242, L1243, L1244, L1245, L1246, L1247, L1248, L1249, L1250, L1251, L1252, L1253, L1254, L1255, L1256, L1257, L1258, L1259, L1260, L1261, L1262, L1263, L1264, L1265, L1266, L1267, L1268, L1269, L1270, L1271, L1272, L1273, L1274, L1275, L1276, L1277, L1278, L1279, L1280, L1281, L1282, L1283, L1284, L1285, L1286, L1287, L1288, L1289, L1290, L1291, L1292, L1293, L1294, L1295, L1296, L1297, L1298, L1299, L1300, L1301, L1302, L1303, L1304, L1305, L1306, L1307, L1308, L1309, L1310, L1311, L1312, L1313, L1314, L1315, L1316, L1317, L1318, L1319, L1320, L1321, L1322, L1323, L1324, L1325, L1326, L1327, L1328, L1329, L1330, L1331, L1332, L1333, L1334, L1335, L1336, L1337, L1338, L1339, L1340, L1341, L1342, L1343, L1344, L1345, L1346, L1347, L1348, L1349, L1350, L1351, L1352, L1353, L1354, L1355, L1356, L1357, L1358, L1359, L1360, L1361, L1362, L1363, L1364, L1365, L1366, L1367, L1368, L1369, L1370, L1371, L1372, L1373, L1374, L1375, L1376, L1377, L1378, L1379, L1380, L1381, L1382, L1383, L1384, L1385, L1386, L1387, L1388, L1389, L1390, L1391, L1392, L1393, L1394, L1395, L1396, L1397, L1398, L1399, L1400, L1401, L1402, L1403, L1404, L1405, L1406, L1407, L1408, L1409, L1410, L1411, L1412, L1413, L1414, L1415, L1416, L1417, L1418, L1419, L1420, L1421, L1422, L1423, L1424, L1425, L1426, L1427, L1428, L1429, L1430, L1431, L1432, L1433, L1434, L1435, L1436, L1437, L1438, L1439, L1440, L1441, L1442, L1443, L1444, L1445, L1446, L1447, L1448, L1449, L1450, L1451, L1452, L1453, L1454, L1455, L1456, L1457, L1458, L1459, L1460, L1461, L1462, L1463, L1464, L1465, L1466, L1467, L1468, L1469, L1470, L1471, L1472, L1473, L1474, L1475, L1476, L1477, L1478, L1479, L1480, L1481, L1482, L1483, L1484, L1485, L1486, L1487, L1488, L1489, L1490, L1491, L1492, L1493, L1494, L1495, L1496, L1497, L1498, L1499, L1500, L1501, L1502, L1503, L1504, L1505, L1506, L1507, L1508, L1509, L1510, L1511, L1512, L1513, L1514, L1515, L1516, L1517, L1518, L1519, L1520, L1521, L1522, L1523, L1524, L1525, L1526, L1527, L1528, L1529, L1530, L1531, L1532, L1533, L1534, L1535, L1536, L1537, L1538, L1539, L1540, L1541, L1542, L1543, L1544, L1545, L1546, L1547, L1548, L1549, L1550, L1551, L1552, L1553, L1554, L1555, L1556, L1557, L1558, L1559, L1560, L1561, L1562, L1563, L1564, L1565, L1566, L1567, L1568, L1569, L1570, L1571, L1572, L1573, L1574, L1575, L1576, L1577, L1578, L1579, L1580, L1581, L1582, L1583, L1584, L1585, L1586, L1587, L1588, L1589, L1590, L1591, L1592, L1593, L1594, L1595, L1596, L1597, L1598, L1599, L1600, L1601, L1602, L1603, L1604, L1605, L1606, L1607, L1608, L1609, L1610, L1611, L1612, L1613, L1614, L1615, L1616, L1617, L1618, L1619, L1620, L1621, L1622, L1623, L1624, L1625, L1626, L1627, L1628, L1629, L1630, L1631, L1632, L1633, L1634, L1635, L1636, L1637, L1638, L1639, L1640, L1641, L1642, L1643, L1644, L1645, L1646, L1647, L1648, L1649, L1650, L1651, L1652, L1653, L1654, L1655, L1656, L1657, L1658, L1659, L1660, L1661, L1662, L1663, L1664, L1665, L1666, L1667, L1668, L1669, L1670, L1671, L1672, L1673, L1674, L1675, L1676, L1677, L1678, L1679, L1680, L1681, L1682, L1683, L1684, L1685, L1686, L1687, L1688, L1689, L1690, L1691, L1692, L1693, L1694, L1695, L1696, L1697, L1698, L1699, L1700, L1701, L1702, L1703, L1704, L1705, L1706, L1707, L1708, L1709, L1710, L1711, L1712, L1713, L1714, L1715, L1716, L1717, L1718, L1719, L1720, L1721, L1722, L1723, L1724, L1725, L1726, L1727, L1728, L1729, L1730, L1731, L1732, L1733, L1734, L1735, L1736, L1737, L1738, L1739, L1740, L1741, L1742, L1743, L1744, L1745, L1746, L1747, L1748, L1749, L1750, L1751, L1752, L1753, L1754, L1755, L1756, L1757, L1758, L1759, L1760, L1761, L1762, L1763, L1764, L1765, L1766, L1767, L1768, L1769, L1770, L1771, L1772, L1773, L1774, L1775, L1776, L1777, L1778, L1779, L1780, L1781, L1782, L1783, L1784, L1785, L1786, L1787, L1788, L1789, L1790, L1791, L1792, L1793, L1794, L1795, L1796, L1797, L1798, L1799, L1800, L1801, L1802, L1803, L1804, L1805, L1806, L1807, L1808, L1809, L1810, L1811, L1812, L1813, L1814, L1815, L1816, L1817, L1818, L1819, L1820, L1821, L1822, L1823, L1824, L1825, L1826, L1827, L1828, L1829, L1830, L1831, L1832, L1833, L1834, L1835, L1836, L1837, L1838, L1839, L1840, L1841, L1842, L1843, L1844, L1845, L1846, L1847, L1848, L1849, L1850, L1851, L1852, L1853, L1854, L1855, L1856, L1857, L1858, L1859, L1860, L1861, L1862, L1863, L1864, L1865, L1866, L1867, L1868, L1869, L1870, L1871, L1872, L1873, L1874, L1875, L1876, L1877, L1878, L1879, L1880, L1881, L1882, L1883, L1884, L1885, L1886, L1887, L1888, L1889, L1890, L1891, L1892, L1893, L1894, L1895, L1896, L1897, L1898, L1899, L1900, L1901, L1902, L1903, L1904, L1905, L1906, L1907, L1908, L1909, L1910, L1911, L1912, L1913, L1914, L1915, L1916, L1917, L1918, L1919, L1920, L1921, L1922, L1923, L1924, L1925, L1926, L1927, L1928, L1929, L1930, L1931, L1932, L1933, L1934, L1935, L1936, L1937, L1938, L1939, L1940, L1941, L1942, L1943, L1944, L1945, L1946, L1947, L1948, L1949, L1950, L1951, L1952, L1953, L1954, L1955, L1956, L1957, L1958, L1959, L1960, L1961, L1962, L1963, L1964, L1965, L1966, L1967, L1968, L1969, L1970, L1971, L1972, L1973, L1974, L1975, L1976, L1977, L1978, L1979, L1980, L1981, L1982, L1983, L1984, L1985, L1986, L1987, L1988, L1989, L1990, L1991, L1992, L1993, L1994, L1995, L1996, L1997, L1998, L1999, L2000, L2001, L2002, L2003, L2004, L2005, L2006, L2007, L2008, L2009, L2010, L2011, L2012, L2013, L2014, L2015, L2016, L2017, L2018, L2019, L2020, L2021, L2022, L2023, L2024, L2025, L2026, L2027, L2028, L2029, L2030, L2031, L2032, L2033, L2034, L2035, L2036, L2037, L2038, L2039, L2040, L2041, L2042, L2043, L2044, L2045, L2046, L2047, L2048, L2049, L2050, L2051, L2052, L2053, L2054, L2055, L2056, L2057, L2058, L2059, L2060, L2061, L2062, L2063, L2064, L2065, L2066, L2067, L2068, L2069, L2070, L2071, L2072, L2073, L2074, L2075, L2076, L2077, L2078, L2079, L2080, L2081, L2082, L2083, L2084, L2085, L2086, L2087, L2088, L2089, L2090, L2091, L2092, L2093, L2094, L2095, L2096, L2097, L2098, L2099, L2100, L2101, L2102, L2103, L2104, L2105, L2106, L2107, L2108, L2109, L2110, L2111, L2112, L2113, L2114, L2115, L2116, L2117, L2118, L2119, L2120, L2121, L2122, L2123, L2124, L2125, L2126, L2127, L2128, L2129, L2130, L2131, L2132, L2133, L2134, L2135, L2136, L2137, L2138, L2139, L2140, L2141, L2142,			

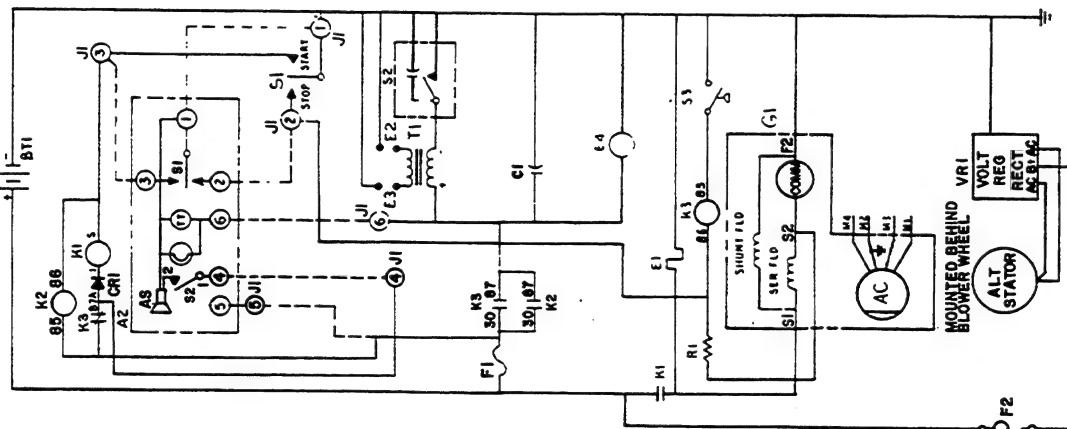
[illegible]

611-1160

WIRING DIAGRAM

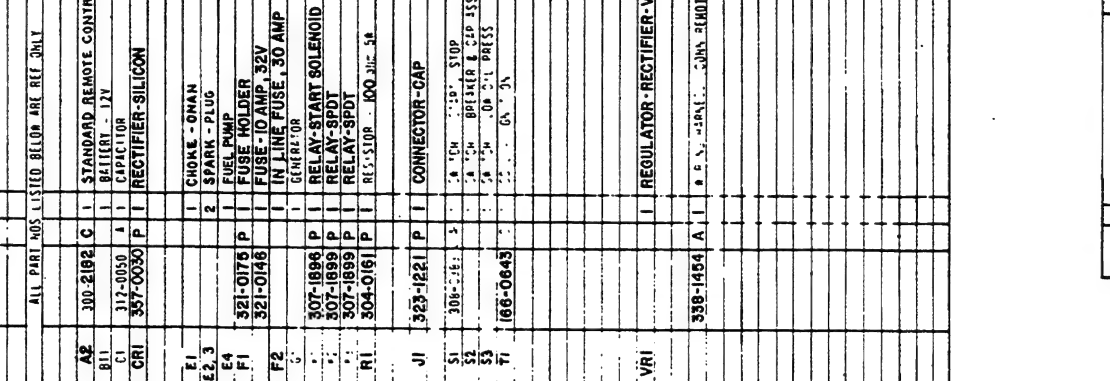


SCHEMATIC



611-1160

WIRING DIAGRAM



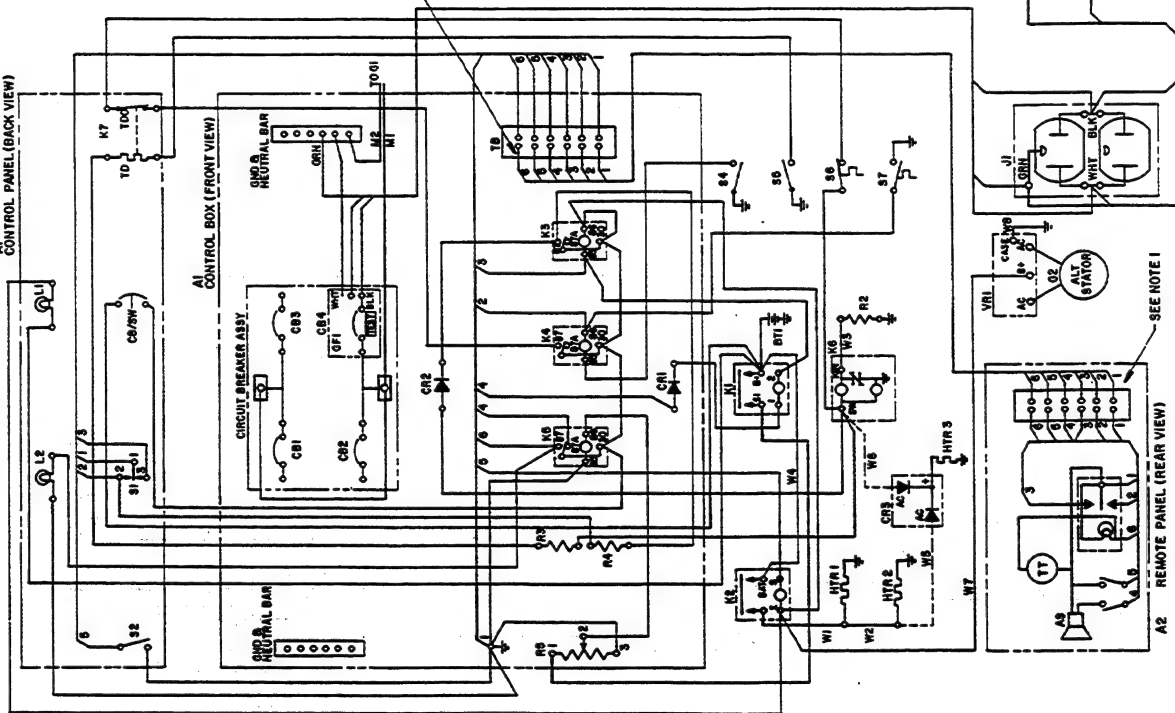
REF	DES	PART NO	QTY	DESCRIPTION
1		300-2169	1	CONTROL ASST - OI
ALL PART NOS LISTED BELOW ARE REF ONLY				
AE		300-2162	1	STANDARD REMOTE CONTROL
B1		312-0050	1	BATTERY - 12V
C1		312-0050	1	CAPACITOR
CRI		357-0030	1	RECTIFIER-SILICON
E1		307-1896	1	CHOKE - ONAN
E2		307-1896	1	FUEL PUMP
E3		307-1896	1	SPARK - PLUG
F1		321-0176	1	FUSE - 10 AMP, 32V
F2		321-0146	1	FUSE - 10 AMP, 32V
G1		307-1896	1	GENERATOR
G2		307-1896	1	RELAY-START SOLENOID
R1		307-1896	1	RELAY-SPDT
R2		307-1896	1	RELAY-SPDT
R3		304-0161	1	RES-STOP - 100 OHM 1/2 W
J1		323-1221	1	CONNECTOR-GAP
S1		308-0181	1	SWITCH - STOP
S2		308-0181	1	SWITCH - STOP
S3		308-0181	1	SWITCH - STOP
T1		166-0643	1	TRANSFORMER - 100 OHM 1/2 W
VRI		338-1464	1	REGULATOR-RECTIFIER-VOLTAGE

6374	B	WAS RI TO KI-SI	1/14/42	1/14/42
4160	A	ADD CRI (357-0030)	7/11/42	7/11/42
3787	R	RESE FOR PROD	7/11/42	7/11/42
ER				
DIVISION OF ORAN CORPORATION Minneapolis, Minnesota				
MODEL NO	9-18-80	REV	1/11/42	1/11/42
CONTROL - GEN SET	CONTROL - GEN SET			
(WIRING DIAGRAM)	(WIRING DIAGRAM)			
611-1147	611-1160			
HUNTSVILLE				

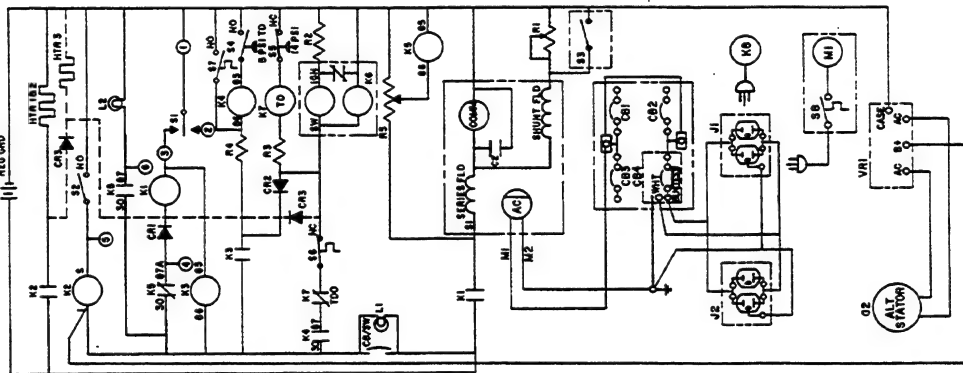
4.0 BFA-IR/23000C	4.0 BFA	120V, 2W	120V, 2W	120V, 2W
6.0 NH-8CR/25000P	6.5NH	120V, 2W	120V, 2W	120V, 2W
120V, 1 PH	120V, 1 PH	120V, 2W	120V, 2W	120V, 2W
4 W	4 W	120V, 2W	120V, 2W	120V, 2W
60 HZ	60 HZ	120V, 2W	120V, 2W	120V, 2W
ME	SS	120V, 2W	120V, 2W	120V, 2W
RECONNECTION CHART	RECONNECTION CHART	RECONNECTION CHART	RECONNECTION CHART	RECONNECTION CHART
6.5NH	4.0BFA	120V, 2W	120V, 2W	120V, 2W
M1	M1	M1	M1	M1
M2	M2	M2	M2	M2
M3	M3	M3	M3	M3
M4	M4	M4	M4	M4

WIRING DIAGRAM

A1 CONTROL PANEL (BACK VIEW)



SCHEMATIC

BY HYVITE ONLY
H10 CHD

NOTES:

1. WHITE-GROUND
2. GREEN-STOP
3. GREEN-START
4. ORANGE-ALARM
5. BLUE-PREHEAT
6. BLUE-STOP

2. ALL COMPONENTS ARE SHOWN IN THE DE-ENERGIZED POSITION

WIRE	RECEPTACLE-DUPLEX (180V, 15A)
W6	335-1232 A REF
W7	335-9074 A REF
W8	335-8981 A REF
W9	335-8980 A REF
W10	335-8982 A REF
W11	335-8983 A REF
W12	335-8984 A REF
W13	335-8985 A REF
W14	335-8986 A REF
W15	335-8987 A REF
W16	335-8988 A REF
W17	335-8989 A REF
W18	335-8990 A REF
W19	335-8991 A REF
W20	335-8992 A REF
W21	335-8993 A REF
W22	335-8994 A REF
W23	335-8995 A REF
W24	335-8996 A REF
W25	335-8997 A REF
W26	335-8998 A REF
W27	335-8999 A REF
W28	335-9000 A REF
W29	335-9001 A REF
W30	335-9002 A REF
W31	335-9003 A REF
W32	335-9004 A REF
W33	335-9005 A REF
W34	335-9006 A REF
W35	335-9007 A REF
W36	335-9008 A REF
W37	335-9009 A REF
W38	335-9010 A REF
W39	335-9011 A REF
W40	335-9012 A REF
W41	335-9013 A REF
W42	335-9014 A REF
W43	335-9015 A REF
W44	335-9016 A REF
W45	335-9017 A REF
W46	335-9018 A REF
W47	335-9019 A REF
W48	335-9020 A REF
W49	335-9021 A REF
W50	335-9022 A REF
W51	335-9023 A REF
W52	335-9024 A REF
W53	335-9025 A REF
W54	335-9026 A REF
W55	335-9027 A REF
W56	335-9028 A REF
W57	335-9029 A REF
W58	335-9030 A REF
W59	335-9031 A REF
W60	335-9032 A REF
W61	335-9033 A REF
W62	335-9034 A REF
W63	335-9035 A REF
W64	335-9036 A REF
W65	335-9037 A REF
W66	335-9038 A REF
W67	335-9039 A REF
W68	335-9040 A REF
W69	335-9041 A REF
W70	335-9042 A REF
W71	335-9043 A REF
W72	335-9044 A REF
W73	335-9045 A REF
W74	335-9046 A REF
W75	335-9047 A REF
W76	335-9048 A REF
W77	335-9049 A REF
W78	335-9050 A REF
W79	335-9051 A REF
W80	335-9052 A REF
W81	335-9053 A REF
W82	335-9054 A REF
W83	335-9055 A REF
W84	335-9056 A REF
W85	335-9057 A REF
W86	335-9058 A REF
W87	335-9059 A REF
W88	335-9060 A REF
W89	335-9061 A REF
W90	335-9062 A REF
W91	335-9063 A REF
W92	335-9064 A REF
W93	335-9065 A REF
W94	335-9066 A REF
W95	335-9067 A REF
W96	335-9068 A REF
W97	335-9069 A REF
W98	335-9070 A REF
W99	335-9071 A REF
W100	335-9072 A REF

611-119

R/W

REF DES

11-4-91

Onan

CONTROL-GENSET (WD)

30 RDJA-AUX

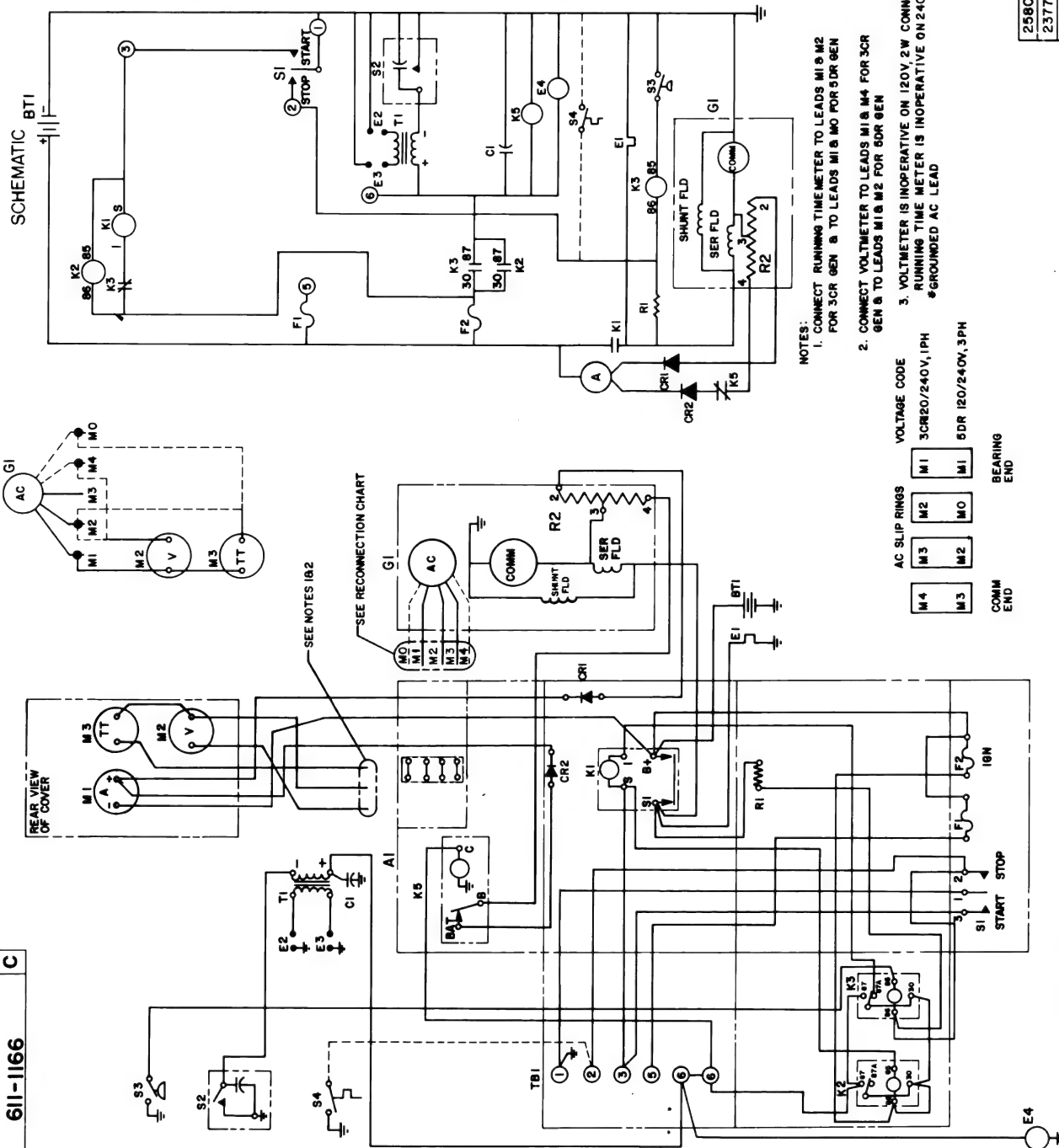
611-1163

D

SCHEMATIC BT1

REF DES	PART NO.	QTY	DESCRIPTION
A1	300-2749 D	1	CONTROL ASSY -OI
ALL PARTS LISTED BELOW ARE REF ONLY			
BT1			
C1	312-0050 A	1	BATTERY - 12 VOLT
CR1, 2	357-0030 P	2	RECTIFIER (BATT CHARGING)
E1			CHOKE - ONAN
E2, 3		2	SPARK-PLUG
E4	149-1547 B	1	FUEL PUMP (OR FUEL SOLENOID)
F1, 2	321-0175 P	2	FUSE HOLDER
	321-0174	2	FUSE - 5 AMP 32 VOLT
G1			GENERATOR
K1	307-1617 B	1	START SOLENOID
K2	307-1675 P	1	RELAY - CRANK IGNITION
K3	307-1675 P	1	RELAY - RUN IGNITION
R1	332-0161 P	1	RESISTOR - 100 ohm 5W
R2			RESISTOR
S1	308-0383 A	1	RELAY-CHARGE
S2			SWITCH-BREAKER & CAP ASSY
S3			SWITCH-LOW OIL PRESS
T1	166-0643 C	1	COIL - IGNITION
TB1	332-0699 A	1	TERMINAL-BLOCK
S4			SWITCH HIGH AIR TEMP (WHEN USED)
M1	302-0068 A	1	AMMETER-DC
M2	302-0061 P	1	AC-VOLTMETER
M3	302-0787 A	1	METER-TIME TOTALIZING
	98-5010 B	1	SILKSCREEN - WIRING DIAG

611-1166



NOTES:

1. CONNECT RUNNING TIME METER TO LEADS M1 & M2 FOR 3CR GEN & TO LEADS M1 & M0 FOR 5DR GEN
2. CONNECT VOLTMETER TO LEADS M1 & M4 FOR 3CR GEN & TO LEADS M1 & M2 FOR 5DR GEN
3. VOLTMETER IS INOPERATIVE ON 120V, 2W CONNECTIONS
RUNNING TIME METER IS INOPERATIVE ON 240V, 2W CONNECTIONS
GROUND AC LEAD

VOLTAGE CODE

M1 3CR/20/240V, 1PH

M2 5DR 120/240V, 3PH

M3 5DR 120/240V, 3PH

M4 5DR 120/240V, 3PH

M5 5DR 120/240V, 3PH

M6 5DR 120/240V, 3PH

M7 5DR 120/240V, 3PH

M8 5DR 120/240V, 3PH

M9 5DR 120/240V, 3PH

M10 5DR 120/240V, 3PH

M11 5DR 120/240V, 3PH

M12 5DR 120/240V, 3PH

M13 5DR 120/240V, 3PH

M14 5DR 120/240V, 3PH

M15 5DR 120/240V, 3PH

M16 5DR 120/240V, 3PH

M17 5DR 120/240V, 3PH

M18 5DR 120/240V, 3PH

M19 5DR 120/240V, 3PH

M20 5DR 120/240V, 3PH

M21 5DR 120/240V, 3PH

M22 5DR 120/240V, 3PH

M23 5DR 120/240V, 3PH

M24 5DR 120/240V, 3PH

M25 5DR 120/240V, 3PH

M26 5DR 120/240V, 3PH

M27 5DR 120/240V, 3PH

M28 5DR 120/240V, 3PH

M29 5DR 120/240V, 3PH

M30 5DR 120/240V, 3PH

M31 5DR 120/240V, 3PH

M32 5DR 120/240V, 3PH

M33 5DR 120/240V, 3PH

M34 5DR 120/240V, 3PH

M35 5DR 120/240V, 3PH

M36 5DR 120/240V, 3PH

M37 5DR 120/240V, 3PH

M38 5DR 120/240V, 3PH

M39 5DR 120/240V, 3PH

M40 5DR 120/240V, 3PH

M41 5DR 120/240V, 3PH

M42 5DR 120/240V, 3PH

M43 5DR 120/240V, 3PH

M44 5DR 120/240V, 3PH

M45 5DR 120/240V, 3PH

M46 5DR 120/240V, 3PH

M47 5DR 120/240V, 3PH

M48 5DR 120/240V, 3PH

M49 5DR 120/240V, 3PH

M50 5DR 120/240V, 3PH

M51 5DR 120/240V, 3PH

M52 5DR 120/240V, 3PH

M53 5DR 120/240V, 3PH

M54 5DR 120/240V, 3PH

M55 5DR 120/240V, 3PH

M56 5DR 120/240V, 3PH

M57 5DR 120/240V, 3PH

M58 5DR 120/240V, 3PH

M59 5DR 120/240V, 3PH

M60 5DR 120/240V, 3PH

M61 5DR 120/240V, 3PH

M62 5DR 120/240V, 3PH

M63 5DR 120/240V, 3PH

M64 5DR 120/240V, 3PH

M65 5DR 120/240V, 3PH

M66 5DR 120/240V, 3PH

M67 5DR 120/240V, 3PH

M68 5DR 120/240V, 3PH

M69 5DR 120/240V, 3PH

M70 5DR 120/240V, 3PH

M71 5DR 120/240V, 3PH

M72 5DR 120/240V, 3PH

M73 5DR 120/240V, 3PH

M74 5DR 120/240V, 3PH

M75 5DR 120/240V, 3PH

M76 5DR 120/240V, 3PH

M77 5DR 120/240V, 3PH

M78 5DR 120/240V, 3PH

M79 5DR 120/240V, 3PH

M80 5DR 120/240V, 3PH

M81 5DR 120/240V, 3PH

M82 5DR 120/240V, 3PH

M83 5DR 120/240V, 3PH

M84 5DR 120/240V, 3PH

M85 5DR 120/240V, 3PH

M86 5DR 120/240V, 3PH

M87 5DR 120/240V, 3PH

M88 5DR 120/240V, 3PH

M89 5DR 120/240V, 3PH

M90 5DR 120/240V, 3PH

M91 5DR 120/240V, 3PH

M92 5DR 120/240V, 3PH

M93 5DR 120/240V, 3PH

M94 5DR 120/240V, 3PH

M95 5DR 120/240V, 3PH

M96 5DR 120/240V, 3PH

M97 5DR 120/240V, 3PH

M98 5DR 120/240V, 3PH

M99 5DR 120/240V, 3PH

M100 5DR 120/240V, 3PH

M101 5DR 120/240V, 3PH

M102 5DR 120/240V, 3PH

M103 5DR 120/240V, 3PH

M104 5DR 120/240V, 3PH

M105 5DR 120/240V, 3PH

M106 5DR 120/240V, 3PH

M107 5DR 120/240V, 3PH

M108 5DR 120/240V, 3PH

M109 5DR 120/240V, 3PH

M110 5DR 120/240V, 3PH

M111 5DR 120/240V, 3PH

M112 5DR 120/240V, 3PH

M113 5DR 120/240V, 3PH

M114 5DR 120/240V, 3PH

M115 5DR 120/240V, 3PH

M116 5DR 120/240V, 3PH

M117 5DR 120/240V, 3PH

M118 5DR 120/240V, 3PH

M119 5DR 120/240V, 3PH

M120 5DR 120/240V, 3PH

M121 5DR 120/240V, 3PH

M122 5DR 120/240V, 3PH

M123 5DR 120/240V, 3PH

M124 5DR 120/240V, 3PH

M125 5DR 120/240V, 3PH

M126 5DR 120/240V, 3PH

M127 5DR 120/240V, 3PH

M128 5DR 120/240V, 3PH

M129 5DR 120/240V, 3PH

M130 5DR 120/240V, 3PH

M131 5DR 120/240V, 3PH

M132 5DR 120/240V, 3PH

M133 5DR 120/240V, 3PH

M134 5DR 120/240V, 3PH

M135 5DR 120/240V, 3PH

M136 5DR 120/240V, 3PH

M137 5DR 120/240V, 3PH

M138 5DR 120/240V, 3PH

M139 5DR 120/240V, 3PH

M140 5DR 120/240V, 3PH

M141 5DR 120/240V, 3PH

M142 5DR 120/240V, 3PH

M143 5DR 120/240V, 3PH

M144 5DR 120/240V, 3PH

M145 5DR 120/240V, 3PH

M146 5DR 120/240V, 3PH

M147 5DR 120/240V, 3PH

M148 5DR 120/240V, 3PH

M149 5DR 120/240V, 3PH

M150 5DR 120/240V, 3PH

M151 5DR 120/240V, 3PH

M152 5DR 120/240V, 3PH

M153 5DR 120/240V, 3PH

M154 5DR 120/240V, 3PH

M155 5DR 120/240V, 3PH

M156 5DR 120/240V, 3PH

M157 5DR 120/240V, 3PH

M158 5DR 120/240V, 3PH

M159 5DR 120/240V, 3PH

M160 5DR 120/240V, 3PH

M161 5DR 120/240V, 3PH

M162 5DR 120/240V, 3PH

M163 5DR 120/240V, 3PH

M164 5DR 120/240V, 3PH

M165 5DR 120/240V, 3PH

M166 5DR 120/240V, 3PH

M167 5DR 120/240V, 3PH

M168 5DR 120/240V, 3PH

M169 5DR 120/240V, 3PH

M170 5DR 120/240V, 3PH

M171 5DR 120/240V, 3PH

M172 5DR 120/240V, 3PH

M173 5DR 120/240V, 3PH

M174 5DR 120/240V, 3PH

M175 5DR 120/240V, 3PH

M176 5DR 120/240V, 3PH

M177 5DR 120/240V, 3PH

M178 5DR 120/240V, 3PH

M179 5DR 120/240V, 3PH

M180 5DR 120/240V, 3PH

M181 5DR 120/240V, 3PH

M182 5DR 120/240V, 3PH

M183 5DR 120/240V, 3PH

M184 5DR 120/240V, 3PH

M185 5DR 120/240V, 3PH

M186 5DR 120/240V, 3PH

M187 5DR 120/240V, 3PH

M188 5DR 120/240V, 3PH

M189 5DR 120/240V, 3PH

M190 5DR 120/240V, 3PH

M191 5DR 120/240V, 3PH

M192 5DR 120/240V, 3PH

M193 5DR 120/240V, 3PH

M194 5DR 120/240V, 3PH

M195 5DR 120/240V, 3PH

M196 5DR 120/240V, 3PH

M197 5DR 120/240V, 3PH

M198 5DR 120/240V, 3PH

M199 5DR 120/240V, 3PH

M200 5DR 120/240V, 3PH

M201 5DR 120/240V, 3PH

M202 5DR 120/240V, 3PH

M203 5DR 120/240V, 3PH

M204 5DR 120/240V, 3PH

M205 5DR 120/240V, 3PH

M206 5DR 120/240V, 3PH

M207 5DR 120/240V, 3PH

M208 5DR 120/240V, 3PH

M209 5DR 120/240V, 3PH

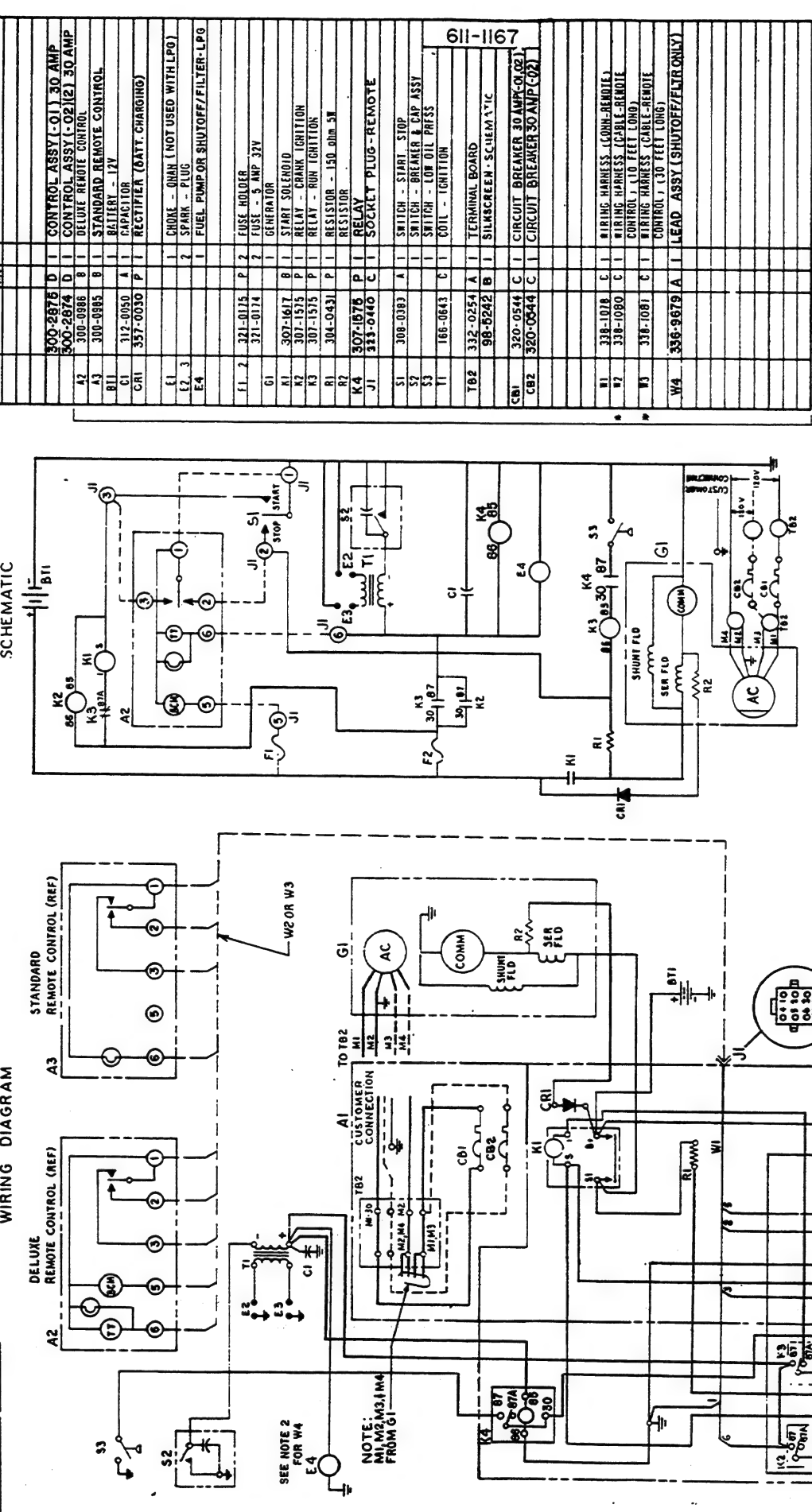
M210 5DR 120/240V, 3PH

M211 5DR 120/240V, 3PH

M212 5DR 120/240V, 3PH

M213 5DR 120/240V, 3PH

M214 5DR 120/240V, 3PH



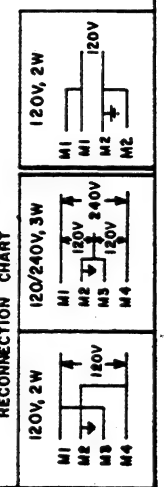
ALL PART NOS LISTED ARE REF ONLY

* WHEN USED

THIS DOCUMENT SUBJECT TO FOLLOWING STANDARDS/CODES
 UL 1000 1000 1000 1000
 TO MAINTAIN THIS COMPLIANCE, NO CHANGES OR
 DEVIATIONS TO BE MADE W/O APPROVAL OF:
 CODES & STANDARDS DIVISION 1000 1000 1000
 SIGNED: [Signature] DATE: [Date]

NOTE:
 1. M2 IS GROUND IN GENERATOR
 2. W4 IS USED ONLY WHEN SHUTOFF/FILTER
 IS USED.

5.08GA, 6.5 NH
 RECONNECTION CHART



4.0 BFA

01	4080AL-IR/18013/C	120/240	IPH	60HZ
02	6.5NH-3CR/18013/P	4W		

PROJ. NO.	611-1167
REV.	1
DATE	10-17-85
BY	JG
CHECKED	WDX
APPROVED	
DESIGNED	
DRAWN	
TESTED	
PROD. FILE NO.	23158
REV.	1
DATE	10-27-85
BY	
CHECKED	
APPROVED	
DESIGNED	
DRAWN	
TESTED	

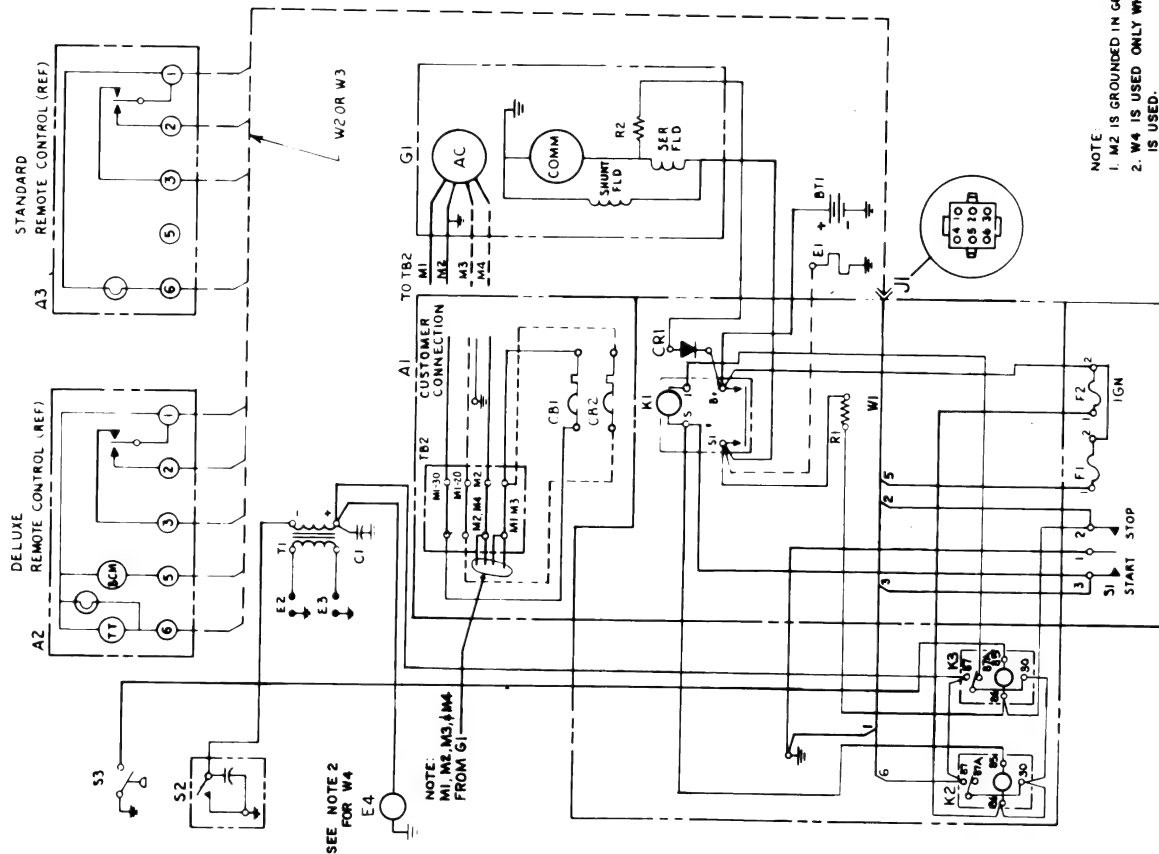
611-1146	611-1167
REV.	1
DATE	
BY	
CHECKED	
APPROVED	
DESIGNED	
DRAWN	
TESTED	

01	4080AL-IR/18013/C	120/240	IPH	60HZ
02	6.5NH-3CR/18013/P	4W		

01	4080AL-IR/18013/C	120/240	IPH	60HZ
02	6.5NH-3CR/18013/P	4W		

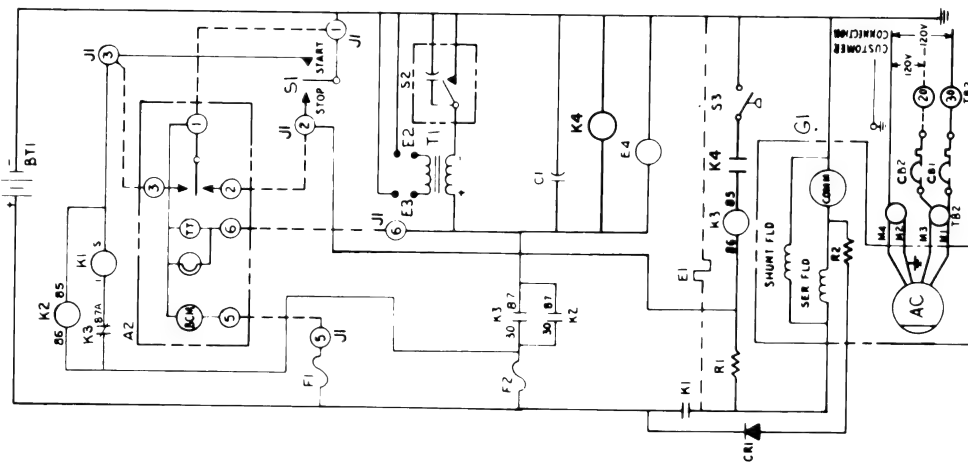
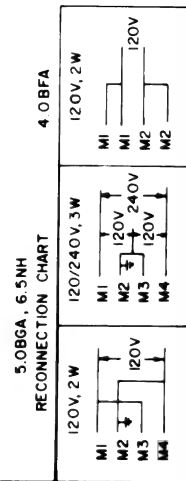
01	4080AL-IR/18013/C	120/240	IPH	60HZ
02	6.5NH-3CR/18013/P	4W		

SCHEMATIC



NOTE:

1. M2 IS GROUNDED IN GENERATOR
2. W4 IS USED ONLY WHEN SHUTOFF/FILTER IS USED.

[illegible][illegible][illegible]

THIS DOCUMENT SUBJECT TO FOLLOWING STANDARDS/CODES:

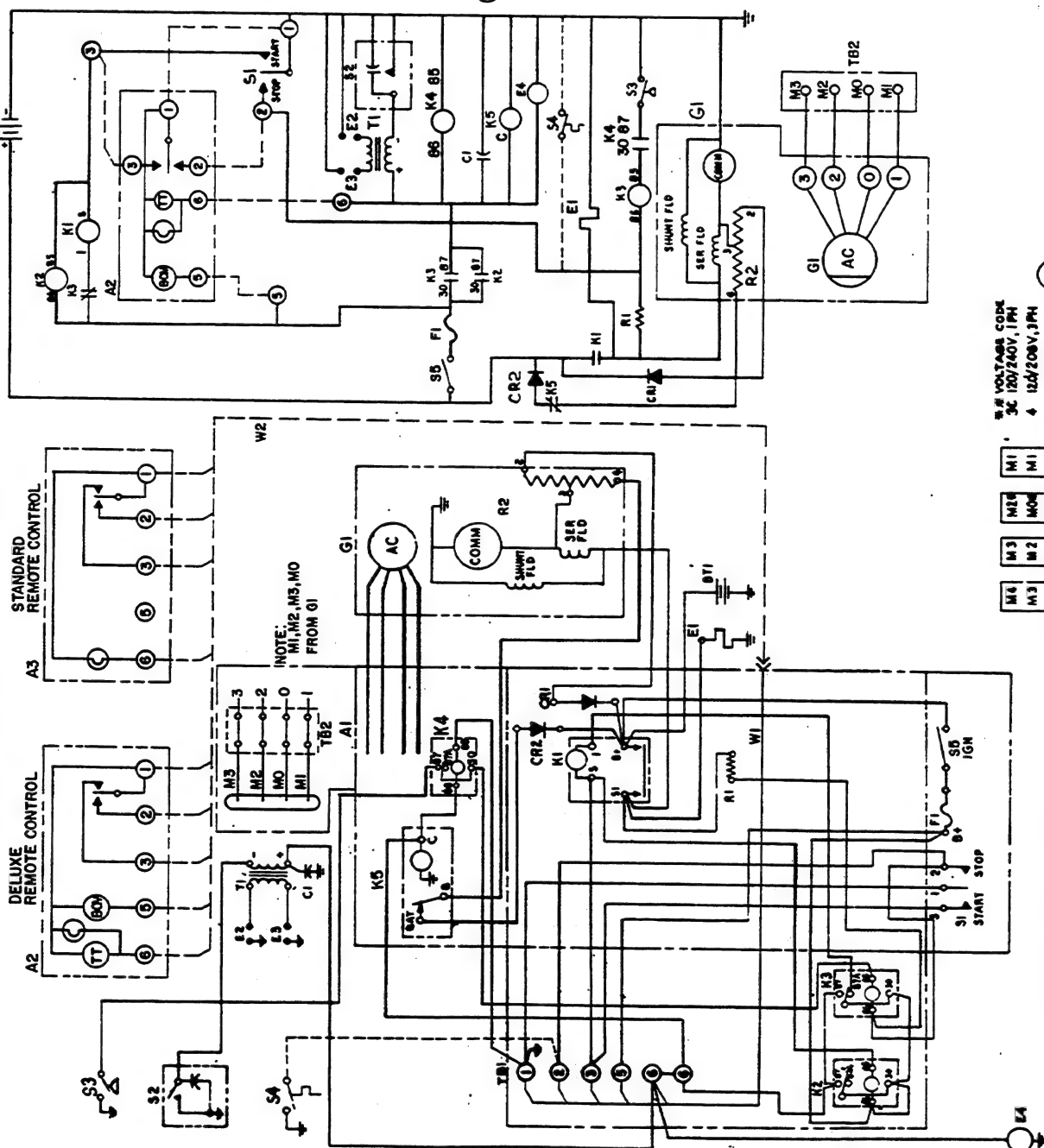
UL	CSA		
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TO MAINTAIN THIS COMPLIANCE, NO CHANGES OR DEVIATIONS TO BE MADE W/O APPROVAL OF

CODES & STDS ENGR.	USPP	IP	ROB3
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SIGNED *Philip Johnson* / 11-28-13 DATE

WIRING DIAGRAM

[illegible]

24560	D	I	ADDED 332-0254	WH 12/24/64
24390	C	I	ADDED EJ, CHONE	WH 5/18/64
24040	B	I	WAS SD 1203003, 3PH	WH 12/23/64
23800	-	PROD FLSE		
23500	UNKN.	RE-STATE		
23000	ERNO.			

ONE.

PROPERTY OF GUN CONTROL
MINNESOTA, MINNESOTA

	2-16-64	RLW 12/17/64
55P	CONTROL - GUN TRY (PHONE 611-1170)	
3PH	611-1168	611-1170

	6.5 NH-5DR/267E	01	3482292	Wm. K. Heston	100/500 V 4 W	90 Mc	1
--	-----------------	----	---------	---------------	------------------	-------	---

BI

ON3	ON2	ON1	ON0
0.000	0.000	0.000	0.000
0.001	0.001	0.001	0.001
0.002	0.002	0.002	0.002
0.003	0.003	0.003	0.003
0.004	0.004	0.004	0.004
0.005	0.005	0.005	0.005
0.006	0.006	0.006	0.006
0.007	0.007	0.007	0.007
0.008	0.008	0.008	0.008
0.009	0.009	0.009	0.009
0.010	0.010	0.010	0.010
0.011	0.011	0.011	0.011
0.012	0.012	0.012	0.012
0.013	0.013	0.013	0.013
0.014	0.014	0.014	0.014
0.015	0.015	0.015	0.015
0.016	0.016	0.016	0.016
0.017	0.017	0.017	0.017
0.018	0.018	0.018	0.018
0.019	0.019	0.019	0.019
0.020	0.020	0.020	0.020
0.021	0.021	0.021	0.021
0.022	0.022	0.022	0.022
0.023	0.023	0.023	0.023
0.024	0.024	0.024	0.024
0.025	0.025	0.025	0.025
0.026	0.026	0.026	0.026
0.027	0.027	0.027	0.027
0.028	0.028	0.028	0.028
0.029	0.029	0.029	0.029
0.030	0.030	0.030	0.030
0.031	0.031	0.031	0.031
0.032	0.032	0.032	0.032
0.033	0.033	0.033	0.033
0.034	0.034	0.034	0.034
0.035	0.035	0.035	0.035
0.036	0.036	0.036	0.036
0.037	0.037	0.037	0.037
0.038	0.038	0.038	0.038
0.039	0.039	0.039	0.039
0.040	0.040	0.040	0.040
0.041	0.041	0.041	0.041
0.042	0.042	0.042	0.042
0.043	0.043	0.043	0.043
0.044	0.044	0.044	0.044
0.045	0.045	0.045	0.045
0.046	0.046	0.046	0.046
0.047	0.047	0.047	0.047
0.048	0.048	0.048	0.048
0.049	0.049	0.049	0.049
0.050	0.050	0.050	0.050
0.051	0.051	0.051	0.051
0.052	0.052	0.052	0.052
0.053	0.053	0.053	0.053
0.054	0.054	0.054	0.054
0.055	0.055	0.055	0.055
0.056	0.056	0.056	0.056
0.057	0.057	0.057	0.057
0.058	0.058	0.058	0.058
0.059	0.059	0.059	0.059
0.060	0.060	0.060	0.060
0.061	0.061	0.061	0.061
0.062	0.062	0.062	0.062
0.063	0.063	0.063	0.063
0.064	0.064	0.064	0.064
0.065	0.065	0.065	0.065
0.066	0.066	0.066	0.066
0.067	0.067	0.067	0.067
0.068	0.068	0.068	0.068
0.069	0.069	0.069	0.069
0.070	0.070	0.070	0.070
0.071	0.071	0.071	0.071
0.072	0.072	0.072	0.072
0.073	0.073	0.073	0.073
0.074	0.074	0.074	0.074
0.075	0.075	0.075	0.075
0.076	0.076	0.076	0.076
0.077	0.077	0.077	0.077
0.078	0.078	0.078	0.078
0.079	0.079	0.079	0.079
0.080	0.080	0.080	0.080
0.081	0.081	0.081	0.081
0.082	0.082	0.082	0.082
0.083	0.083	0.083	0.083
0.084	0.084	0.084	0.084
0.085	0.085	0.085	0.085
0.086	0.086	0.086	0.086
0.087	0.087	0.087	0.087
0.088	0.088	0.088	0.088
0.089	0.089	0.089	0.089
0.090	0.090	0.090	0.090
0.091	0.091	0.091	0.091
0.092	0.092	0.092	0.092
0.093	0.093	0.093	0.093
0.094	0.094	0.094	0.094
0.095	0.095	0.095	0.095
0.096	0.096	0.096	0.096
0.097	0.097	0.097	0.097
0.098	0.098	0.098	0.098
0.099	0.099	0.099	0.099
0.100	0.100	0.100	0.100

GROUNDED
AC LEAD

RECONNECTION CHART 1PH 4W

The chart shows three connection diagrams for a 1PH 4W transformer:

- 120V:** M1-M2 and M3-M4.
- 240V:** M1-M3 and M2-M4.
- 120/240V:** M1-M2 and M3-M4 (with a center tap on M3-M4).

WIRING DIAGRAM

SCHEMATIC

REMOTE

A3

A2

A1

A0

A-1

A-2

A-3

A-4

A-5

A-6

A-7

A-8

A-9

A-10

A-11

A-12

A-13

A-14

A-15

A-16

A-17

A-18

A-19

A-20

A-21

A-22

A-23

A-24

A-25

A-26

A-27

A-28

A-29

A-30

A-31

A-32

A-33

A-34

A-35

A-36

A-37

A-38

A-39

A-40

A-41

A-42

A-43

A-44

A-45

A-46

A-47

A-48

A-49

A-50

A-51

A-52

A-53

A-54

A-55

A-56

A-57

A-58

A-59

A-60

A-61

A-62

A-63

A-64

A-65

A-66

A-67

A-68

A-69

A-70

A-71

A-72

A-73

A-74

A-75

A-76

A-77

A-78

A-79

A-80

A-81

A-82

A-83

A-84

A-85

A-86

A-87

A-88

A-89

A-90

A-91

A-92

A-93

A-94

A-95

A-96

A-97

A-98

A-99

A-100

A-101

A-102

A-103

A-104

A-105

A-106

A-107

A-108

A-109

A-110

A-111

A-112

A-113

A-114

A-115

A-116

A-117

A-118

A-119

A-120

A-121

A-122

A-123

A-124

A-125

A-126

A-127

A-128

A-129

A-130

A-131

A-132

A-133

A-134

A-135

A-136

A-137

A-138

A-139

A-140

A-141

A-142

A-143

A-144

A-145

A-146

A-147

A-148

A-149

A-150

A-151

A-152

A-153

A-154

A-155

A-156

A-157

A-158

A-159

A-160

A-161

A-162

A-163

A-164

A-165

A-166

A-167

A-168

A-169

A-170

A-171

A-172

A-173

A-174

A-175

A-176

A-177

A-178

A-179

A-180

A-181

A-182

A-183

A-184

A-185

A-186

A-187

A-188

A-189

A-190

A-191

A-192

A-193

A-194

A-195

A-196

A-197

A-198

A-199

A-200

A-201

A-202

A-203

A-204

A-205

A-206

A-207

A-208

A-209

A-210

A-211

A-212

A-213

A-214

A-215

A-216

A-217

A-218

A-219

A-220

A-221

A-222

A-223

A-224

A-225

A-226

A-227

A-228

A-229

A-230

A-231

A-232

A-233

A-234

A-235

A-236

A-237

A-238

A-239

A-240

A-241

A-242

A-243

A-244

A-245

A-246

A-247

A-248

A-249

A-250

A-251

A-252

A-253

A-254

A-255

A-256

A-257

A-258

A-259

A-260

A-261

A-262

A-263

A-264

A-265

A-266

A-267

A-268

A-269

A-270

A-271

A-272

A-273

A-274

A-275

A-276

A-277

A-278

A-279

A-280

A-281

A-282

A-283

A-284

A-285

A-286

A-287

A-288

A-289

A-290

A-291

A-292

A-293

A-294

A-295

A-296

A-297

A-298

A-299

A-300

A-301

A-302

A-303

A-304

A-305

A-306

A-307

A-308

A-309

A-310

A-311

A-312

A-313

A-314

A-315

A-316

A-317

A-318

A-319

A-320

A-321

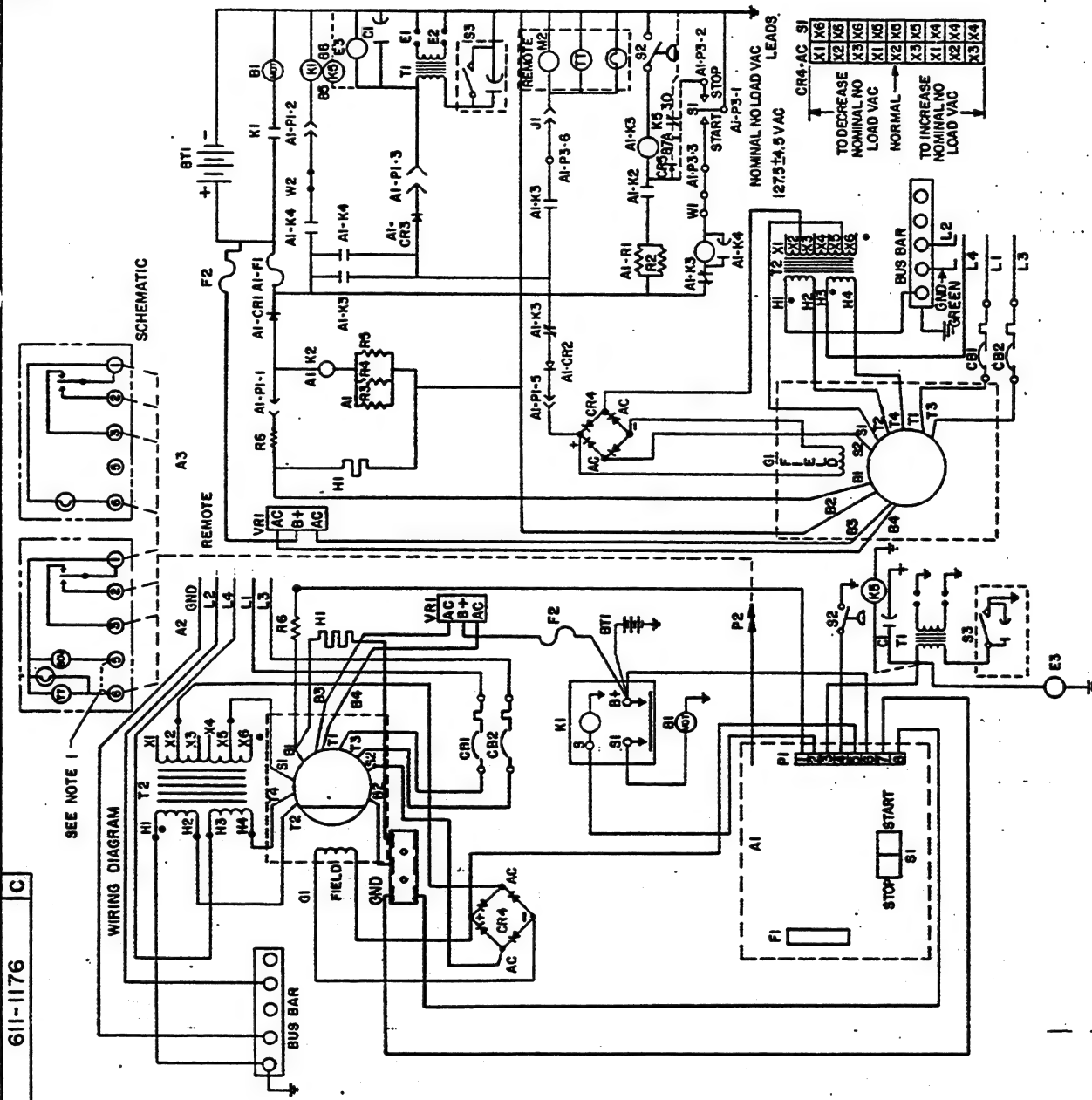
A-322

A-323

A-324

A-325

A-326



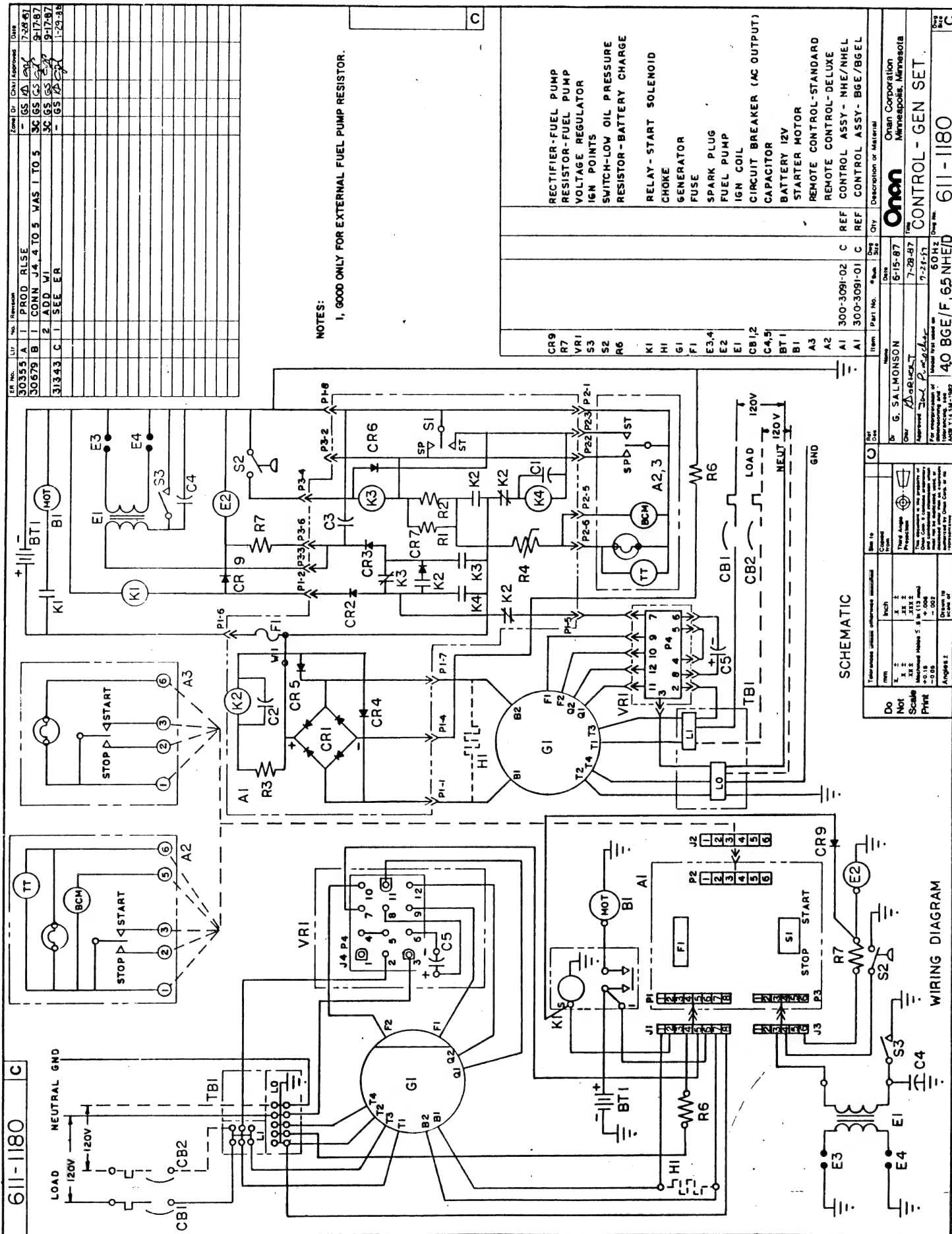
NOTES:

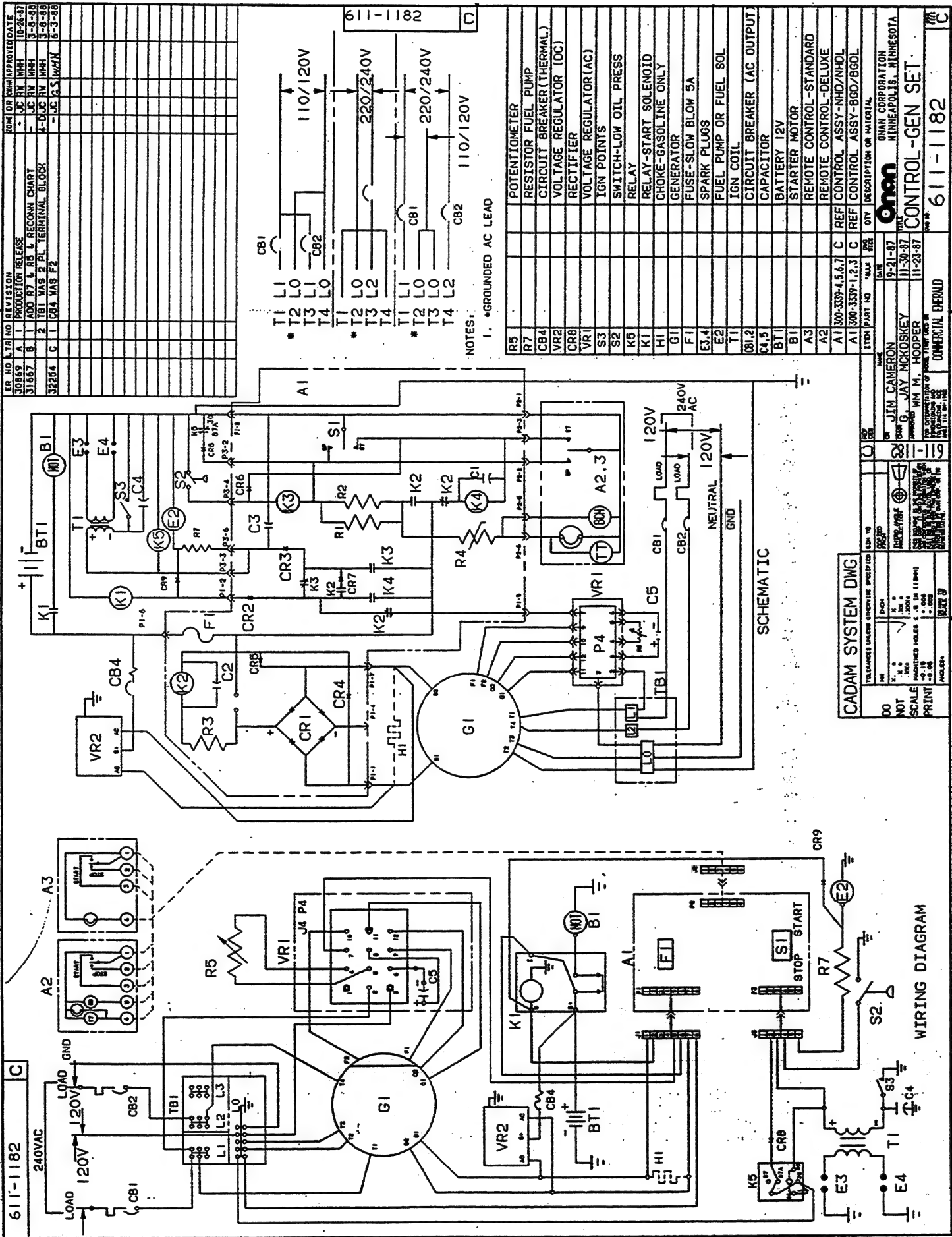
- 1. JUMPER IS NEEDED FOR BATTERY CONDITION METER**

F2	Part No.	Q'ty	Unit Price	Total Price	Description of Material
WI.1	300-2878	C	REF		ONAN CORPORATION MINNEAPOLIS, MINNESOTA
WI.2					
TI					
S3					
S2					
SI					
RG					
K1					
HI					
FI					
E3					
E1					
E2					
CB					
CR					
CR					
CR					
CI					
BT					
BI					
A3					
A2					
A1					

RECONNECTION CHART 1 PH 4WIRE

***GROUNDED
AC LEAD**

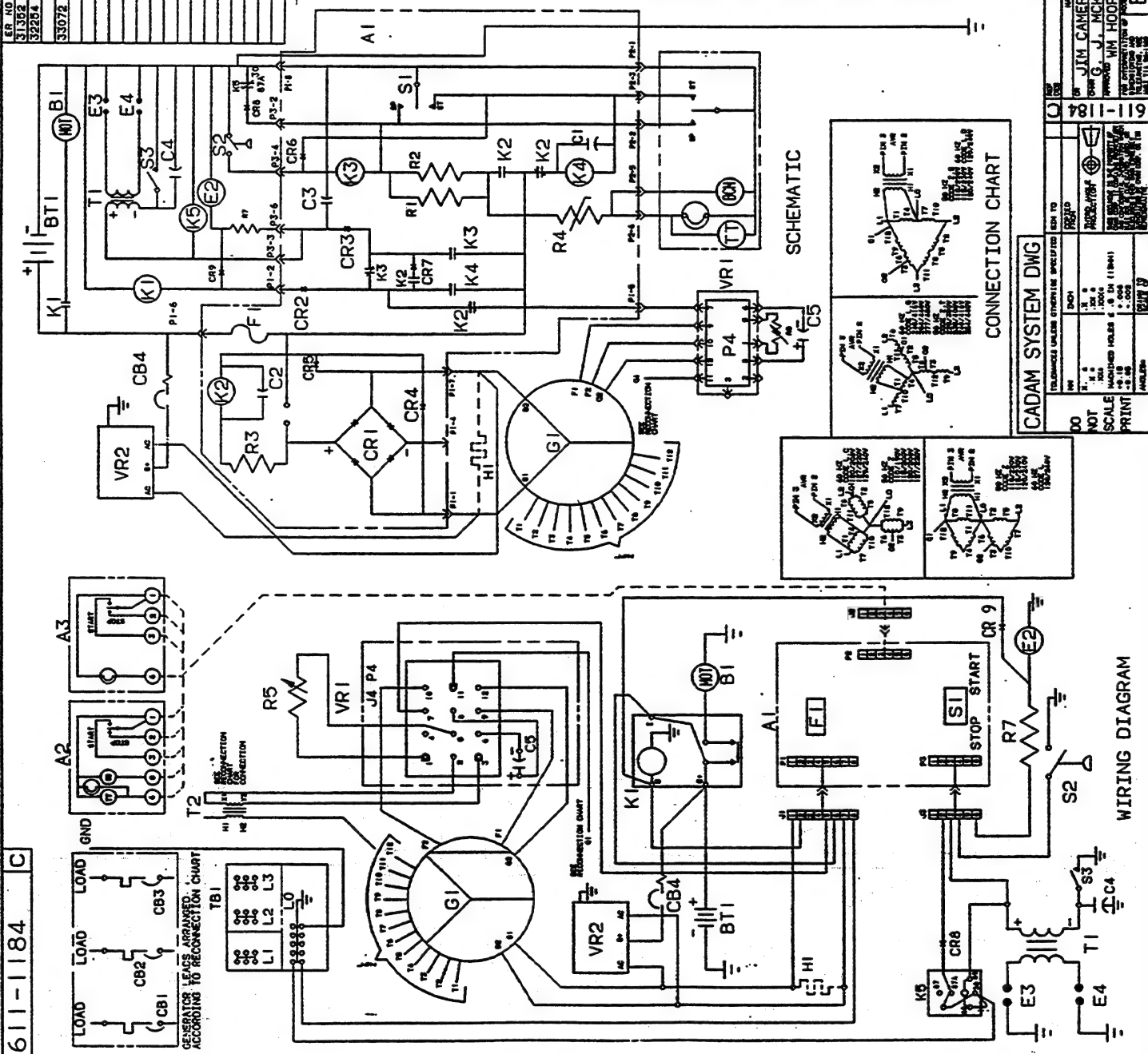




611-1184 C

REV. NO.	DATE	REVISION	BY	CHKD.	DATE
31352	A	1	PRODUCTION RELEASE		
32204	B	1	ADD T2 TRANSFORMER		
33072	C	1	CR4 WAS F2		
		2	CR4-1 CONNECTION WAS J4-4		
		2	CR6 LEAD WAS TO P2-2, P3-2		

611-1184 C

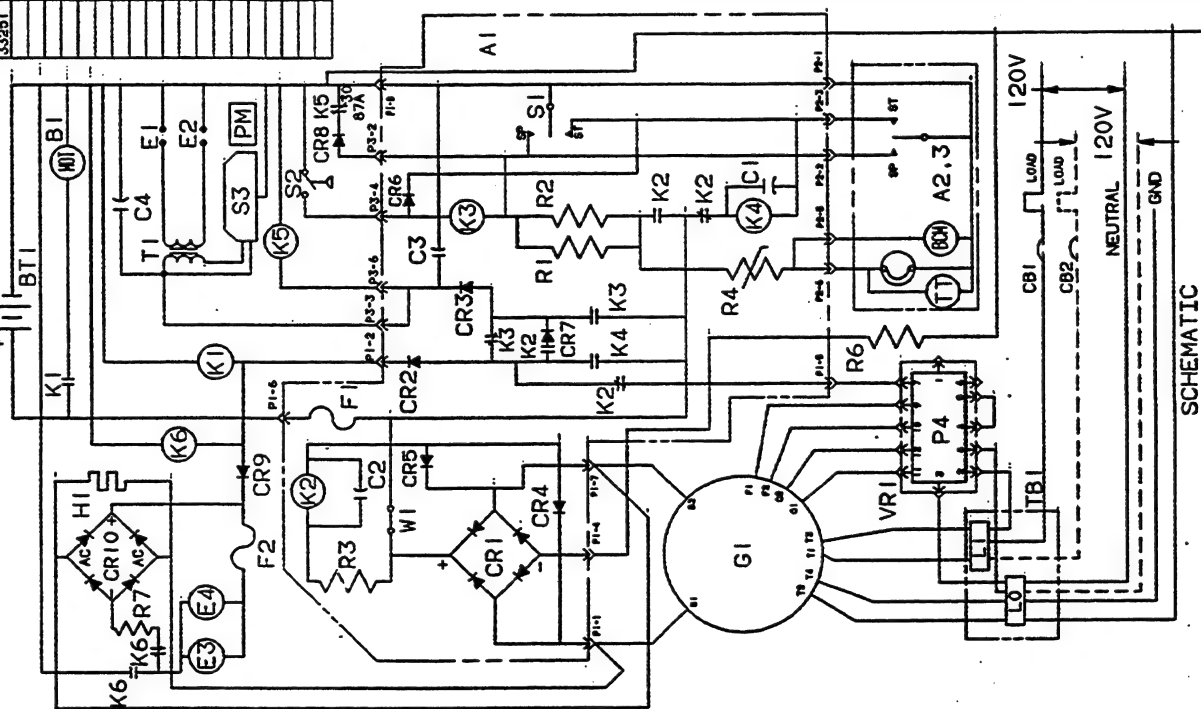


T2	TRANSFORMER VOLTAGE REC		
CB4	CIRCUIT BREAKER (THERMAL)		
VR2	VOLTAGE REGULATOR (DC)		
CR8	RECTIFIER		
VR1	VOLTAGE REGULATOR (AC)		
S3	IGN POINTS		
S2	SWITCH-LOW OIL PRESS		
K5	RELAY		
K1	RELAY-START SOLENOID		
H1	CHOKE-GASOLINE ONLY		
G1	GENERATOR		
F1	FUSE-SLOW BLOW 5A		
E3,4	SPARK PLUGS		
E2	FUEL PUMP OR FUEL SOL		
T1	IGN COIL		
CR2,3	CIRCUIT BREAKER (AC OUTPUT)		
C4,5	CAPACITOR		
BT1	BATTERY 12V		
B1	STARTER MOTOR		
A3	REMOTE CONTROL-STANDARD		
A2	REMOTE CONTROL-DELUXE		
A1 300-3459-02	C REF CONTROL ASSY-NHD/NHDL		
A1 300-3459-01	C REF CONTROL ASSY-BGD/86DL		
ITEM	PART NO	QTY	DESCRIPTION OR MATERIAL
		DATE	
IN		1-21-88	
KEY		2-8-88	
CR		2-8-88	
GD, NHD			
611-1184			
ON			
MINNAPOLIS, MINNESOTA			
CONTROL-GEN SET			
ON			

ONAN CORPORATION
MINNEAPOLIS, MINNESOTA

CONTROL-GEN SET

611-1184 C

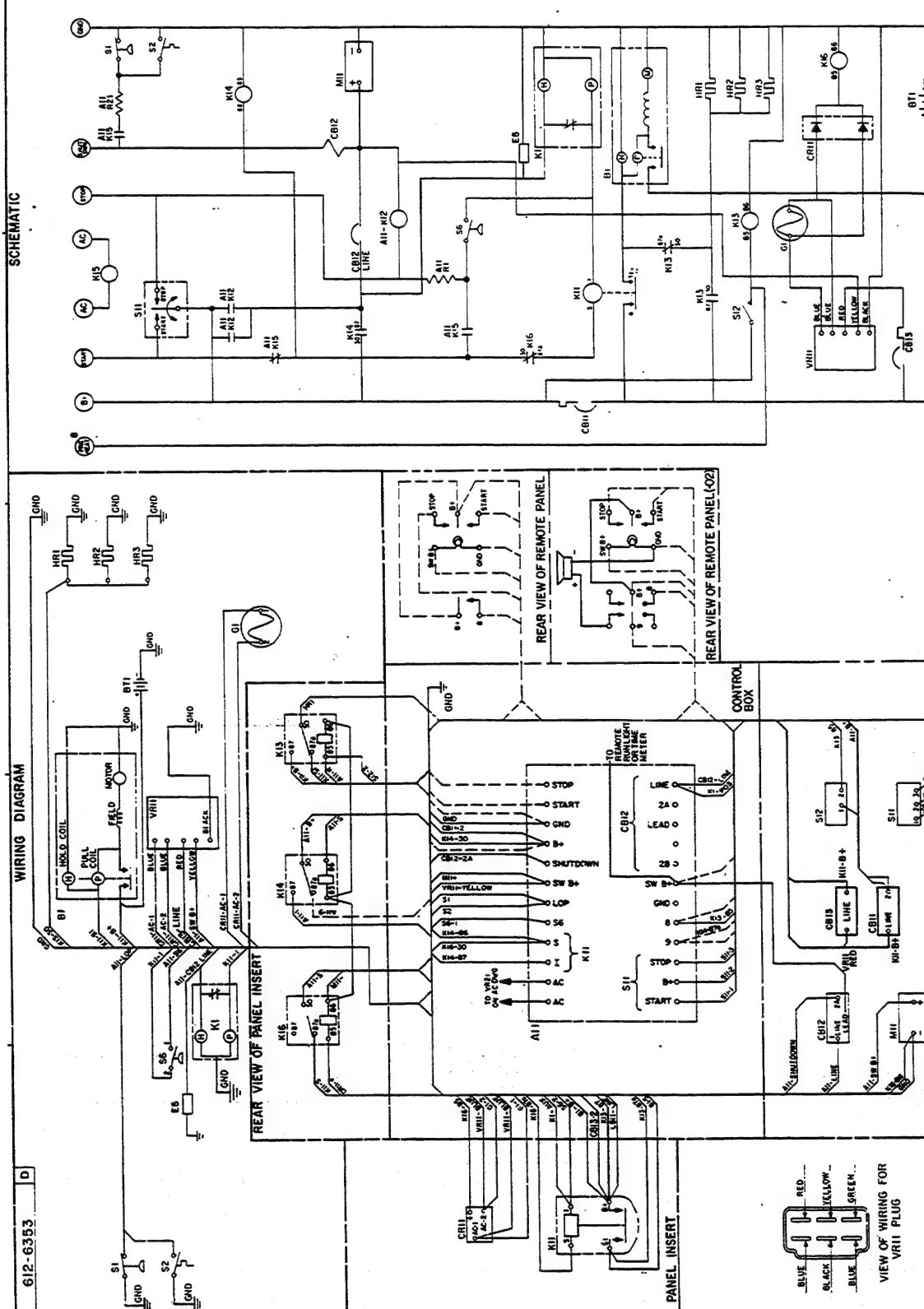


CADAM SYSTEM DWG

[illegible]

1. ALL ELECTRICAL COMPONENTS ARE DRAWN IN THE DE-ENERGIZED POSITION.

VRI				VOLTAGE REGULATOR	C
T1				IGN COIL	
S3				IGN MODULE	
S2				SWITCH-LOW OIL PRESSURE	
R7				RESISTOR-FUEL PUMP	
R6				RESISTOR-BATTERY CHARGE	
K6				RELAY-FUEL PUMP	
K5				RELAY-STOP LATCH	
K1				RELAY-START SOLENOID	
H1				CHOKE-GASOLINE ONLY	
G1				GENERATOR	
F2				FUSE-SLOW BLOW 5A	
F1				FUSE-SLOW BLOW 5A	
E4				SOLENOID FUEL VALVE	
E3				FUEL PUMP	
E1,2				SPARK PLUG	
CR10				RECTIFIER-FUEL PUMP POWER	
CR9				RECTIFIER-FUEL PUMP	
CR8				RECTIFIER-STOP LATCH	
CR1,2				CIRCUIT BREAKER (AC OUTPUT)	
C4				CAPACITOR	
BT1				BATTERY 12V	
B1				STARTER MOTOR	
A3				REMOTE CONTROL-STANDARD	
A2				REMOTE CONTROL-DELUXE	
A1	300-3590-02	C	REF	CONTROL ASSY-NHM	
A1	300-3590-01	C	REF	CONTROL ASSY-BGM	



END PARTS	LIST	(REF)
1	WATER PUMP	1
2	WATER PUMP	1
3	WATER PUMP	1
4	WATER PUMP	1
5	WATER PUMP	1
6	WATER PUMP	1
7	WATER PUMP	1
8	WATER PUMP	1
9	WATER PUMP	1
10	WATER PUMP	1
11	WATER PUMP	1
12	WATER PUMP	1
13	WATER PUMP	1
14	WATER PUMP	1
15	WATER PUMP	1
16	WATER PUMP	1
17	WATER PUMP	1
18	WATER PUMP	1
19	WATER PUMP	1
20	WATER PUMP	1
21	WATER PUMP	1
22	WATER PUMP	1
23	WATER PUMP	1
24	WATER PUMP	1
25	WATER PUMP	1
26	WATER PUMP	1
27	WATER PUMP	1
28	WATER PUMP	1
29	WATER PUMP	1
30	WATER PUMP	1
31	WATER PUMP	1
32	WATER PUMP	1
33	WATER PUMP	1
34	WATER PUMP	1
35	WATER PUMP	1
36	WATER PUMP	1
37	WATER PUMP	1
38	WATER PUMP	1
39	WATER PUMP	1
40	WATER PUMP	1
41	WATER PUMP	1
42	WATER PUMP	1
43	WATER PUMP	1
44	WATER PUMP	1
45	WATER PUMP	1
46	WATER PUMP	1
47	WATER PUMP	1
48	WATER PUMP	1
49	WATER PUMP	1
50	WATER PUMP	1
51	WATER PUMP	1
52	WATER PUMP	1
53	WATER PUMP	1
54	WATER PUMP	1
55	WATER PUMP	1
56	WATER PUMP	1
57	WATER PUMP	1
58	WATER PUMP	1
59	WATER PUMP	1
60	WATER PUMP	1
61	WATER PUMP	1
62	WATER PUMP	1
63	WATER PUMP	1
64	WATER PUMP	1
65	WATER PUMP	1
66	WATER PUMP	1
67	WATER PUMP	1
68	WATER PUMP	1
69	WATER PUMP	1
70	WATER PUMP	1
71	WATER PUMP	1
72	WATER PUMP	1
73	WATER PUMP	1
74	WATER PUMP	1
75	WATER PUMP	1
76	WATER PUMP	1
77	WATER PUMP	1
78	WATER PUMP	1
79	WATER PUMP	1
80	WATER PUMP	1
81	WATER PUMP	1
82	WATER PUMP	1
83	WATER PUMP	1
84	WATER PUMP	1
85	WATER PUMP	1
86	WATER PUMP	1
87	WATER PUMP	1
88	WATER PUMP	1
89	WATER PUMP	1
90	WATER PUMP	1
91	WATER PUMP	1
92	WATER PUMP	1
93	WATER PUMP	1
94	WATER PUMP	1
95	WATER PUMP	1
96	WATER PUMP	1
97	WATER PUMP	1
98	WATER PUMP	1
99	WATER PUMP	1
100	WATER PUMP	1

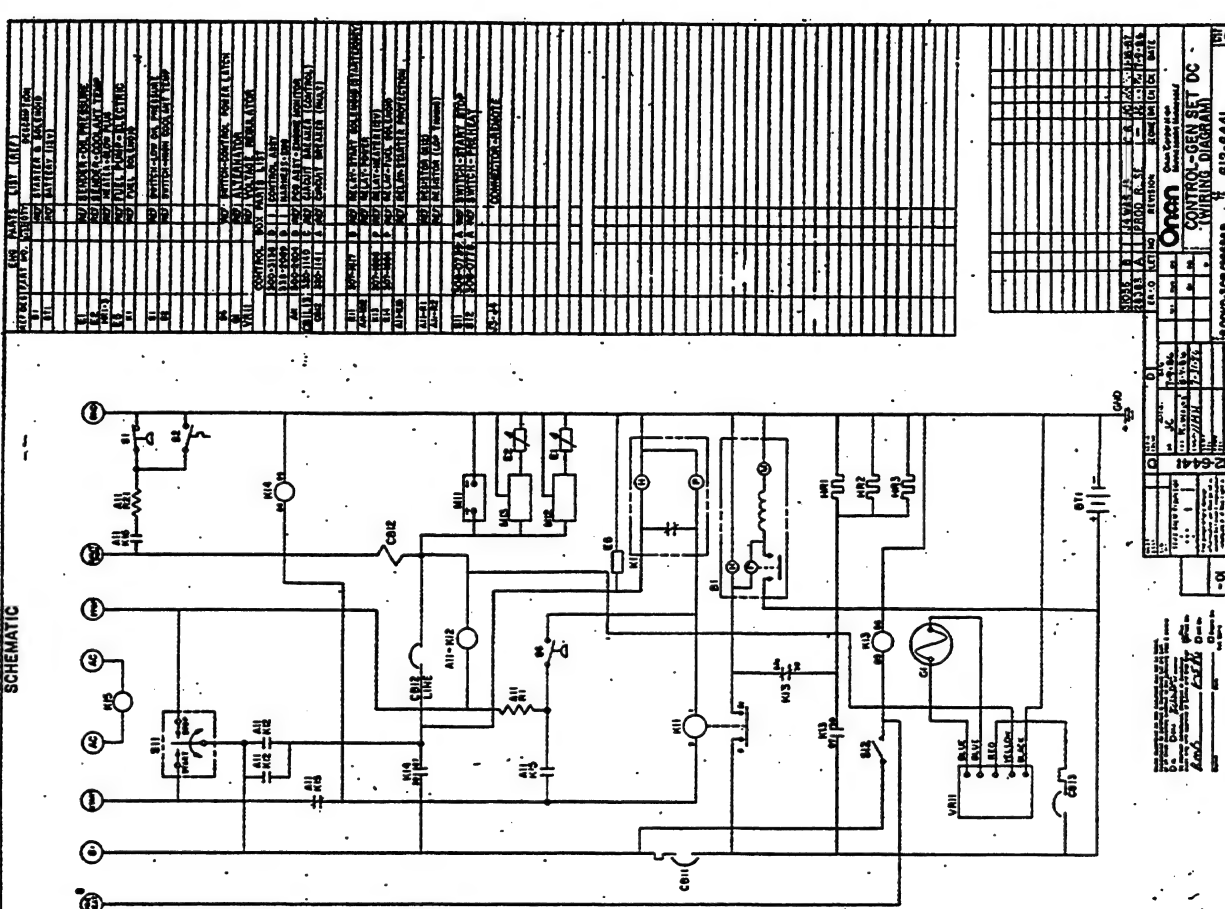
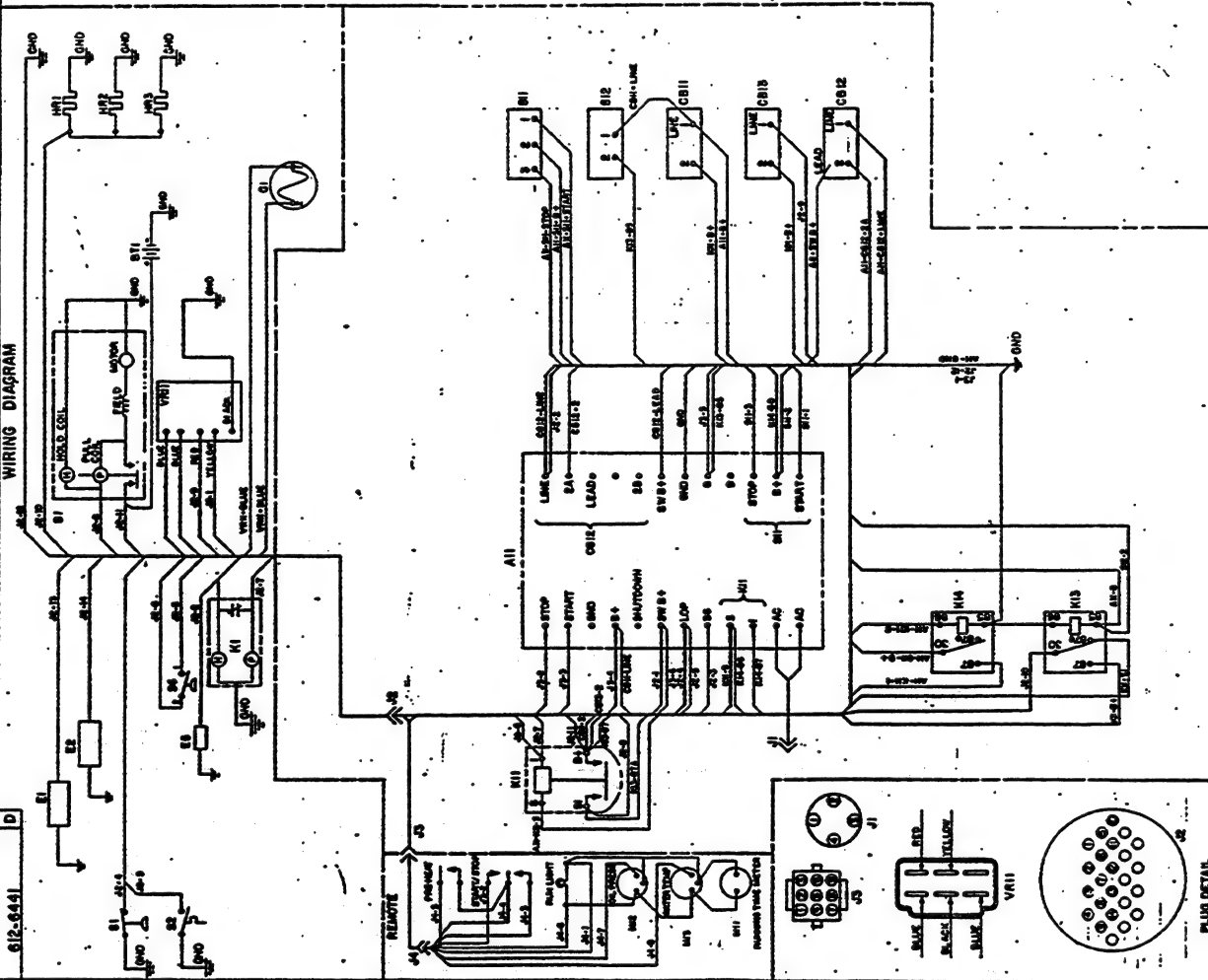
2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950	2951	2952	2953	2954	2955	2956	2957	2958	2959	2960	2961	2962	2963	2964	2965	2966	2967	2968	2969	2970	2971	2972	2973	2974	2975	2976	2977	2978	2979	2980	2981	2982	2983	2984	2985	2986	2987	2988	2989	2990	2991	2992	2993	2994	2995	2996	2997	2998	2999	3000
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

ENGR	LET NO.	REVISION	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100		

SCHEMATIC

WIRING DIAGRAM

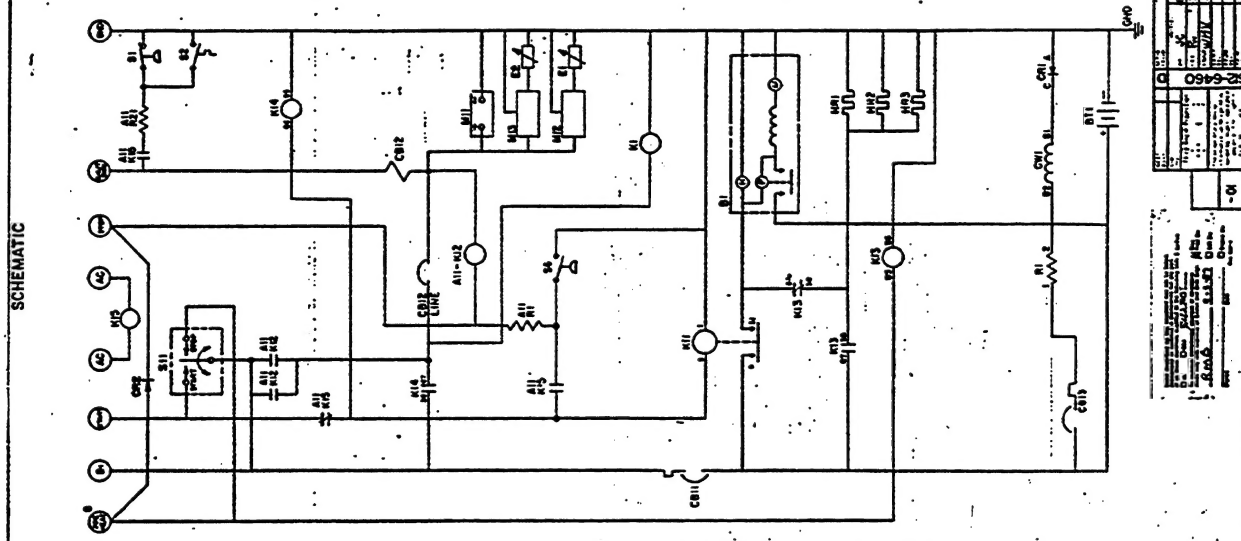
612-6441



612-6441		612-6441	
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

612-6441		612-6441	
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100



[illegible]



Onan Corporation
1400 73rd Avenue N.E.
Minneapolis, MN 55432
1-800-888-ONAN
612-574-5000 International Use
Telex: 275477
Fax: 612-574-8087

Onan is a registered trademark of Onan Corporation